Westfield State College
BULLETIN
1991 - 1992

WESTFIELD STATE COLLEGE
1991- 1992 BULLETIN
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COLLEGE MISSION

Westfield State College is continually in the process of developing and fulfilling the legislative mandate of the Commonwealth of Massachusetts to provide educational programs, research, and continuing scholarship in support of its primary teaching mission, continuing education services in support of lifelong learning, and service to the western Massachusetts region. Degrees are offered in the liberal, fine, and applied arts and sciences as well as other related disciplines through the master's degree and certificate of advanced graduate study. In the development of new programs, the college seeks to be responsive to changing societal needs and career patterns, while retaining its basic character as a liberal arts and sciences institution. The college's service to students outside of the formal academic program supports the basic objective of providing a comprehensive educational experience. In its educational programs, admission practices, and hiring, the college is committed to affirmative action and equal opportunity regardless of race, color, creed, sex, age, handicap, religion, national origin, or economic status.

ADMISSIONS

FRESHMAN ADMISSION

The Office of Admission reviews applications of students who wish to matriculate in the undergraduate day division and pursue at least 12 credits of course work per semester. A student applying to the Office of Admission for entrance as a freshman directly from high school must supply the following information:

. The Application Form and Fee
. College Board Scholastic Aptitude Test (SAT) Scores
. An official high school transcript, beginning with grade 9 and including grades from the first marking period of the senior year, or acceptable evidence of equivalent preparation
. Official transcripts of any college work attempted
. An OPTIONAL writing sample: a photocopy of a graded senior year English composition, including teacher's comments

The College has a selective admission policy. Freshman applicants are subject to an Eligibility Index based on class rank and SAT scores established by the Board of Regents to determine minimum eligibility requirements. In accordance with the guidelines established by the Board of Regents and with the approval of the College Board of Trustees, Westfield State College has reserved the right to set higher minimum standards than those published by the Regents for the State Colleges. In addition, freshman applicants must complete the following 16 college preparatory units required by the Board of Regents:

4 units/years of English
3 units/years of Math (Algebra I and II; Geometry)
2 units/years of Social Sciences (including 1 unit of U.S. History)
2 units/years of Laboratory Sciences
2 units/years of the same foreign language
3 units/years of electives (taken from the above list and/or the performing arts and Computer Science)

Applicants must achieve a C average in their academic units. Specific majors may require additional specific units for admission. Some majors also may require a performance test as part of the admission process.

Exemptions from the Eligibility Index and the 16 units may be granted for applicants who qualify under specific guidelines determined by the Board of Regents. Contact the Director of Admission for further information.

Applicants who meet the minimum eligibility requirements are not guaranteed admission to the College. The successful applicant has achieved a solid academic record while maintaining a challenging academic program and will have demonstrated a willingness to contribute to the life of the community. Admission decisions are made on an individual basis by the Admission Staff beginning January 1 for the fall semester and December 1 for the spring semester after all required credentials have been received.

ADMISSIONS PROFILE

Class of 1995 entering WSC September 1991

SAT range	Verbal Score	Math Score
200-299	0%	0%
300-399	27%	12.5%
400-499	55%	51%
500-599	17%	30%
600-699	1%	6%
700-800	0%	.5%

Rank in Class
TOP 10%..... 5%
TOP 25%.....29%
TOP 50%.....75%

Summary:

3500 freshman applications were received
1840 applicants were accepted (53% of 3500)
670 accepted students enrolled (36% of 1840)
288 Male (43% of 670)
382 Female (57% of 670)

TRANSFER ADMISSION

Students who have attempted to complete any transferable coursework at a regionally accredited college beyond high school graduation are considered transfer applicants. Transfer applicants who will have attempted and completed successfully 24 transferable credit hours (36 quarter hours) or less by their planned entrance date must submit:

. The Application Form and Fee
. Official, original transcripts from all colleges attended
. A list of college course titles in progress at the time of application
. An official high school transcript and SAT scores.

Transfer applicants who will have attempted and completed successfully more than 24 transferable credit hours by their planned entrance date are required to submit the same credentials as other transfer applicants EXCEPT the SAT. Also, students who will have earned an Associates's degree from a Massachusetts Community College by their planned entrance date are exempted from submitting the high school transcript.

A minimum cumulative grade point average of 2.00 or C (exclusive of developmental or other non-transferable coursework) is required for transfer admission consideration; some major programs of study require higher grade point averages. Qualified Massachusetts community college graduates, particularly those who have fulfilled the Commonwealth Transfer Compact, are given priority for admission into all major programs of study.

A student who has completed the general education requirements of one state college prior to transferring to another state college is not obligated to meet additional or different general education requirements of the receiving college, with the exception of students transferring to the Maritime Academy and to or from Mass College of Art.

A student must complete successfully a minimum of one year as a full-time student (30 credits) and all remaining requirements for the major field of study to receive a baccalaureate degree from Westfield. In addition, some major programs of study require the completion of a minimum number of credits at Westfield State College.

Admission is competitive and not guaranteed to all applicants who meet minimum eligibility standards. Transfer admission decisions are made on an individual basis beginning February 1 for the fall semester and December 1 for the spring semester after all required credentials have been received. The number of transferees accepted will be determined by existing vacancies in each degree program and the number of applicants deemed eligible according to cumulative grade point average.

Once admitted to Westfield State College, the transfer student assumes a new cumulative average that is subject to academic policies established by the College.

A student transferring from a two-year institution is entitled to transfer for credit toward the bachelor's degree no more than two years (or 67 credits) of credit, which constitute the requirement of the associate degree program taken as a unit.

Enrolled full-time day students who wish to change their matriculated status to part-time or evening enrollment may do so without formally reapplying from the Day Division to Continuing Education. Requests to transfer academic records from the Admission Office or Registrar to Continuing Education will be processed within specific time periods on a space-available basis. For these students, both the offer of acceptance and the awarding of any transferably credits toward a degree program granted by one division becomes binding upon the receiving division.

COMMONWEALTH TRANSFER COMPACT

(effective January 1990 for students entering public two year colleges with a January 1992 effective date for students transferring into public four year colleges)

Requirements for Transfer Compact Status (Section I)

A student shall be eligible for Transfer Compact status if he or she has met the following requirements:

a. Completed an Associate degree with a minimum of 60 credit hours exclusive of developmental course work
b. Achieved a cumulative grade point average of not less than 2.0 (in a 4.0 system) at the community college awarding the degree
c. Completed the following minimum general education core, exclusive of developmental course work:

English Composition/Writing: 6 credit hours
Behavioral and Social Sciences: 9 credit hours
Humanities and Fine Arts: 9 credit hours
Natural or Physical Science: 8 credit hours
Mathematics: 3 credit hours

The sending institution is responsible for identifying the transcript of each student who is a candidate for transfer under this compact.

Credits to be Transferred
(Section II)

The 35 credits in general education specified in Section I will be applied toward the fulfillment of the receiving institution's general education requirements.

A minimum of 25 additional credits will be accepted as transfer credits by the receiving institution. These credits may be transferred as free electives, toward the receiving institution's additional general education requirements, towards the student's major, or in any combination, as the receiving institution deems appropriate.

Only college-level course credits consistent with the standards set forth in the Undergraduate Experience recommendations are included under this compact. Credits awarded by the sending institution through CLEP, challenge examinations, and other life-experience evaluations for course credit may be included when the community college certifies that a student qualifies under this compact.

Credits Beyond the Associates Degree
(Section III)

To complete the baccalaureate degree, a student who transfers under this compact may be required to take no more than 68 additional credits unless:

a. The student changes his or her program upon entering the receiving institution, or
b. The combination of additional general education requirements, if any, and the requirements of the student's major at the receiving institution total more than 68 credits

Under these circumstances, transfer students will be subject to the same requirements as native students. (The term "native student" refers to students who began their undergraduate education at the baccalaureate institution.)

Admission to Competitive Majors or Programs
(Section IV)

If because of space or fiscal limitations the receiving institution does not admit all qualified applicants to a given major or program, the receiving institution will use the same criteria for applicants who are transfer students under this Compact as it does for its native students.

Transfer Coordinating Committee
(Section V)

A Transfer Coordinating Committee, convened by the Board of Regents, will monitor use of the Transfer Compact, resolve appeals as they pertain to the provisions in this document, and collect and analyze relevant data.

Publication of Requirements
(Section VI)

Each public college and university shall include in its official undergraduate catalog the provisions of the Commonwealth Transfer Compact. A transfer student may not be held to any degree requirements at the receiving institution that were established less than three years prior to transfer admissions.

Transfer Records
(Section VII)

The student with Transfer Compact status will be furnished by the receiving institution a list of courses to be fulfilled to earn a bachelors degree no later than the end of the semester the student enrolls. With the agreement of the student, a copy will be provided to the Transfer Officer at the sending community college.

Transfer Officer
(Section VIII)

The President or Chancellor of each public institution of higher education will identify an individual who serves as that institution's Transfer Officer. The Transfer Officer's responsibility will be to assist students with transfer activities.

Student Appeals
(Section IX)

A student who believes that the provisions of this Compact have not been applied fairly to his/her transfer application has the right to appeal.

Initially, differences of interpretation regarding the award of transfer credit shall be resolved between the student and the institution to which he/she is transferring. If the difference remains unresolved, the student shall present his/her evaluation of the situation to the institution from which the student is transferring. Representatives from the two institutions shall then have the opportunity to resolve the differences.

In the absence of a satisfactory resolution, differences on interpretation may be presented to the Transfer Coordinating Committee.

Effective Date
(Section X)

The effective of this compact is January 1990 for students entering public two year colleges with a January 1992 date for students transferring into public four year colleges.

FOREIGN STUDENT ADMISSION

Any foreign student seeking admission to the College must fulfill the requirements established for freshmen or transfer students. The Test of English as a Foreign Language (TOEFL) also is required of each applicant. Information on this requirement can be obtained from either the College Entrance Examination Board or the Educational Testing Service. All applications for admission from foreign students must be received by January 1 for entrance the following September. No foreign applicants are eligible for admission in the January entrance periods.

READMISSION

Students who leave Westfield State College because of academic failure are readmitted through the Registrar's Office. In order to return, students must take enough courses at another accredited college to raise their cumulative quality point average to the level required for the number of credits they have attempted (see Academic Standing).

Students who withdraw from the college in good academic, financial, and disciplinary standing may be readmitted through the Registrar's Office, provided that their absence has been no longer than one year. Students absent longer than one year may be eligible for readmission through the Registrar's Office, depending upon their major and the availability of space. Any student denied readmission through the Registrar's Office may apply for readmission through the Office of Admission.

Students who have been withdrawn or dismissed by the college for disciplinary, financial, or other non-academic reasons may not reenter until the conditions established at the time of withdrawal have been met.

Students who are seeking readmission should inform the appropriate office as early as possible prior to their return in order to facilitate course placement.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP) ADVANCED PLACEMENT (AP)

Academic credit or waiver of requirements may be granted based upon performance on the College Level Examination Program (CLEP) and Advanced Placement (AP) tests. Generally, students must attain a CLEP score at least equivalent to the 75 percentile of national norms established by the College Board, or an AP examination score of at least 3; however, specific standards and whether credit or waiver is granted are determined by the individual academic departments. Therefore, students should consult the appropriate academic department or the CLEP administrator (Wilson 234) concerning the relevant standards and policies. CLEP Tests are offered in areas fulfilling core requirements and in other subject areas as well. Students with questions regarding AP scores should consult the Director of Admission.

Credit or waiver of requirements will not be granted unless the examination is taken prior to enrollment in a course which is equivalent to the examination. A maximum of 60 credits may be earned through CLEP examination.

FINANCIAL AID

The primary purpose of the Financial Aid Office at Westfield State College is to insure that no student is unable to pursue his/her educational goals for lack of financial resources. Westfield State College participates in a wide variety of federal, state and private programs. Assistance can be in the form of gift aid (grants and scholarships) and self-help programs (loans and work study). The Financial Aid Office staff is available to assist students throughout the financial aid process.

POLICIES AND CRITERIA

The policies and criteria for awarding financial aid are as follows:

1. The philosophy of financial aid is that the family has the responsibility to meet as much of the educational costs of their children as is reasonably possible. Financial Aid is a supplement to the family resources.
2. The Financial Aid Form (FAF) must be completed and mailed to the College Scholarship Service before March 1st. The FAF can be obtained from the Financial Aid Office at Westfield State College or from a high school guidance office.
3. In addition to the FAF, the Westfield State College Financial Aid Application, appropriate parent and student income verification, and Pell Grant Student Aid Reports must be submitted to the Financial Aid Office by April 1st. Students completing their files by the deadline will receive priority consideration. Files completed after the deadline will be awarded on a funds-available basis.
4. Satisfactory Academic Progress and Financial Aid:

   a. Full time students must be initially enrolled for at least 12 credits each semester. This determination is made by the Registrar's Office at the end of the ADD/DROP period each semester. Financial Aid awards are adjusted proportionately for those in part-time attendance through the Division of Graduate Studies and Continuing Education.

   b. Students must make satisfactory academic progress toward a degree. This means that students must successfully complete at least 24 credits each academic year (only 12

credits if enrolled for one semester during that academic year). This standard is adjusted proportionately for those students in part-time attendance through the Division of Graduate Studies and Continuing Education. Credits are awarded for a course grade of D or better. Day students who fail to meet this requirement at the end of Spring semester will be notified by the Registrar's office and will be ineligible for financial aid for the next academic year. However, students who are deficient in credits may use the summer following the academic year to earn additional credits to meet the satisfactory progress standard.

c. Appeals regarding satisfactory academic progress and financial aid eligibility should be directed to the Dean of Undergraduate Studies.

5. Financial aid awards are not renewed automatically. Students must reapply each year.

FEDERAL PROGRAMS

Westfield State College participates in seven federal programs: Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan (formerly the National Direct Student Loan), College Work Study (CWS), Stafford Loan (formerly the Guaranteed Student Loan), Parent Loans (PLUS), and Supplemental Loans for Students (SLS).

STATE PROGRAMS

Westfield State College participates in five state programs: Massachusetts State Scholarship, Adult Learner Grant, Part Time Grant, Westfield State College Grant, and Financial Aid Tuition Waiver.

PRIVATE AND INSTITUTIONAL PROGRAMS

Westfield State College offers a variety of scholarships annually which are credited toward college expenses. These local scholarships are not based on financial need.

COST OF ATTENDING WESTFIELD STATE COLLEGE*

	FALL 1991 SEMESTER	Spring 1992 SEMESTER	TOTAL YEAR
TUITION:			
Tuition for Massachusetts Residents**	$ 663.00	663.00	1326.00
Tuition under proximity clause of New England Regional Program	$ 994.50	994.50	1989.00
Tuition for Non-Resident Students	$ 2520.50	2520.50	5040.00
Tuition for Foreign Students	$ 2520.50	2520.50	5040.00
ROOM AND BOARD:			
Courtney	$ 1330.00	1330.00	2660.00
Apartments	$ 1200.00	1200.00	2400.00
Dormitories	$ 1080.00	1080.00	2160.00
Dorm Damage	$ 50.00		50.00
BOARD:			
19 Meal Plan	$ 621.50	621.50	1243.00
14 Meal Plan	$ 596.50	596.50	1193.00
FEES:			
Special Purpose	$ 517.50	517.50	1035.00
Athletic Fee	$ 84.25	84.25	168.50
Student Union	$ 35.00	35.00	70.00
Student Activity	$ 33.50	33.50	67.00
Health Fee	$ 32.50	32.50	65.00
Educational Service Fee	$ 25.00	25.00	50.00
Library Development	$ 20.00	20.00	40.00
TOTAL FEES:	$ 747.75	747.75	1495.50
ONE TIME NEW STUDENT FEES:			
Commencement	$ 50.00		
Freshmen Orientation	$ 40.00		
Career Services	$ 20.00		
Parking	$ 10.00		
TOTAL NEW STUDENT FEES:	$ 120.00		

OTHER FEES:

Student Teaching (Practicum semester)	$ 100.00	
Late Payment Fee	$ 25.00	
Late Registration Fee	$ 25.00	
Transfer Orientation (one time fee)	$ 9.50	
Bad Check Fee	$ 25.00	
Books/Supplies	$ 400.00	

WAIVABLE FEES:

Student Health Insurance	$ 255.00	Fall and Spring
	$ 193.00	Spring Semester Only
MASS PIRG	$ 5.00	per semester

DEPOSITS (non-refundable):

Tuition Deposit	$ 50.00
Residence Hall Reservation Deposit	$ 50.00

* The schedule of fees and tuition, methods of payment and refund policies are valid at the time of publication of the BULLETIN and subject to change as required without advance notice.

** Tuition is free for persons 60 years of age and over. Admission granted on a space-available basis. Tuition-free students are responsible for paying all fees.

WITHDRAWAL REFUND POLICY

Commitments to faculty, staff and other costs of operation are made by the College in advance of the school year. They are based on anticipated student enrollment and residence hall occupancy and are not subject to change.

To be eligible for a refund, a student must formally withdraw from the College (see Procedure for Withdrawing from College). The amount of refund will be determined on the basis of the official date of written withdrawal. Forms may be obtained in the Office of the Registrar.

Due to the extremely heavy clerical demands during registration and the beginning of a semester, refunds should not be expected until at least four weeks after the start of a semester.

TUITION

If a student withdraws from the College, tuition refunds are made according to the following schedule:

New Students
Prior to the beginning of classes: all tuition minus the $50.00 initial deposit.
Within the first week of classes: 66%
Within the second week: 50%
Within the third week: 33%
After the third week: NONE

Returning Students
Prior to the beginning of classes: 100%
Within the first week of classes: 66%
Within the second week: 50%
Within the third week: 33%
After the third week: NONE

BOARD

Refunds for board are made according to the same schedule as tuition refunds. This schedule applies to students who reside in the apartments as well as to those students who transfer to the apartments or move off campus. There will be no board refunds and/or adjustments after the third week of classes.

ROOM

All Residential Life and College Apartment residents have occupancy agreements. See the Housing Office for information on withdrawal prior to occupancy, withdrawal during term of agreement, and individual exceptions. Refunds normally are tied to both written notification of intention to withdraw and to the College's ability to fill the vacancy created by the resident's withdrawal.

OTHER FEES

There will be no refunds on the following after classes begin:
Special Purpose Fee, Athletic Fee, Student Union Fee, Student Activity Fee, Health Fee, Educational Service Fee, Library Development Fee, Commencement Fee, Freshman or Transfer Orientation Fee, Career Services Fee, Parking Permit Fee, Student Teaching Fee, Late Registration Fee, Late Payment Fee, Bad Check Fee, Student Insurance Fee and MASS PIRG.

COLLEGE POLICY CONCERNING PAYMENT OF BILLS

The College expects that all bills will be satisfied by the due date as stated on the bill. Generally, bills can be satisfied in one of the following three ways:

1. A student may pay his/her bill in full;
2. A student has financial aid, scholarships, waivers, etc., which, with payment, will cover the bill;
3. A student or parents may have a contract with the College payment plan, Academic Management Services, Inc., and such contract will satisfy the bill.

Bills not satisfied by the due date will be assessed a late payment fee of $25.00.

Failure to meet these requirements will result in administrative withdrawal from the College. Students will lose all rights and privileges as students at Westfield State College and will not be allowed reinstatement until the beginning of the next academic semester and upon payment of a $50.00 reentry fee.

POLICY REGARDING OUTSTANDING DEBTS

It is the policy of the Board of Trustees that students who are listed by the Business Office of Westfield State College as having unpaid debts for tuition, room, board, medical, or other college related charges where said debts have not been discharged by operation of law or where deferred payment of said debts has not been agreed to by said college, the student will not (1) be issued a diploma to which said student might otherwise be entitled; (2) be permitted to register for any program at any state college for which said students might otherwise be eligible; and (3) be furnished a certified copy of any state college transcript (unless said transcript is needed to obtain benefits in the United States Armed Forces) although said students will be entitled, upon written request, to inspect and review uncertified copies of transcripts.

STUDENT AFFAIRS

The Division of Student Affairs publishes important policies and regulations each fall. Students are advised to obtain a copy of these policies and to review the contents. The Vice President for Student Affairs is located in the Ely Campus Center, Room 130.

Westfield State College has a commitment to making our residential life program an important component of a student's overall educational experience. A variety of modern facilities and living arrangements are available, with each hall staffed by a full-time professional residence director, student resident advisors, housekeeping and security personnel, and governed by an elected Residential Life Council. The College also maintains a listing of off-campus housing and assists students in identifying roommates. However, the College does not evaluate or intervene in these arrangements.

A dining plan is mandatory for all resident students except those in the college apartments. Two plans are available: a 19-meal plan and a 14-meal plan. Students may elect either plan. Commuting students may also purchase a dining plan if they wish. Two on-campus snack bars also offer dining services on an a la carte basis.

Health services are available 24 hours a day, as well as infirmary care for students needing overnight treatment. The college physician is on campus on a regular part-time basis, providing treatment for minor ailments and referral on other problems.

CAREER SERVICES

The Office of Career Services is designed to help students and alumni of Westfield State College develop and implement career and graduate school plans. Career planning is a process of individual development which must be nourished during the entire period of a student's involvement with the college. To assist students with this planning process, the Office of Career Services sponsors a variety of programs and services including career counseling, on-campus employment recruitment, career fairs, workshops on resume preparation, developing interview skills and job search techniques, alumni networking, credential file service, a computerized job matching service and much more. SIGI Plus, a computerized career guidance program, is also available to assist students in researching information about occupations, values, interests, skills, educational programs, etc. A Career Resource Library provides a wealth of information on preparing for graduate study and preparing for various careers.

For additional information please contact the Office of Career Services, located in Room 146 of the Ely Campus Center, Extension 206.

CENTER FOR PSYCHOLOGICAL SERVICES

The Center for Psychological Services provides individual and group counseling to students and other members of the college community. The Center is staffed by faculty in the Department of Psychology who have doctorates and training in clinical or counseling psychology.

All counseling is strictly confidential and without additional fee. The purpose of the Center is to help clients deal with interpersonal or intrapersonal concerns in an effective, positive manner, learn new coping skills, and gain greater self-understanding.

Appointments are made through the Director whose office is in Wilson 105. The phone extension is 376 or 749. Students are usually seen between 8 A.M. and 5 P.M.

VETERANS SERVICES

The Veterans' Affairs Office at Westfield State College is part of the Division of Student Affairs. The contact person is the Vice President of Student Affairs, located in the Ely Campus Center, Room 130, Ext. 414.

The Veterans' Affairs Office provides an explanation of all benefits, a follow-up on claims with the Veterans Administration, a counseling service for full-time day students, and makes available several work-study grants for eligible veterans.

ATHLETICS

Westfield State College has an extensive, quality program of intercollegiate and intramural athletics. Men's and women's teams compete under the umbrella of the National Collegiate Athletic Association (NCAA). In addition to fielding teams in Division III of the NCAA, Westfield State College holds membership in the Eastern College Athletic Conference (ECAC), the Massachusetts State College Athletic Conference (MASCAC), and the New England Collegiate Athletic Conference (NECAC). For additional information, please contact the Athletic Department in the Ely Building.

CAMPUS CENTER AND STUDENT ACTIVITIES

Open seven days a week, the Ely Campus Center is the community center for the entire college family: students, faculty, administration, alumni and guests. It is not just a building; it is also an organization and a program. Together they represent a well considered plan for the community life of the college.

As the "living room" of the college, the Campus Center provides for the services, conveniences, and amenities the members of the college community need for their daily lives on campus and for getting to know and understand one another through informal association outside of the classroom.

Through its volunteer boards, committees, and student employment opportunities, the Campus Center provides a cultural, social, and recreational program aiming to make free time activity a cooperative factor with academic study.

ACADEMIC AFFAIRS

ACADEMIC ADVISING

Academic advising is provided to each student to assist them in understanding and interpreting college academic policies and requirements, major requirements, course selection and registration, and related academic opportunities and objectives. This does not remove the responsibility from students, however, to be knowledgeable about the academic requirements they have to meet.

Students are assigned faculty advisors by the chairpersons of their major departments. Academic advising is available to all UNDECLARED students in the Academic Achievement Center located in Parenzo Hall, room 102. The Associate Dean, Academic Affairs /Director, Academic Advising assigns advisors to undeclared students. Students work with this advisor until declaring a major.

Students generally meet with advisors at least once each semester prior to the registration period to discuss course selection and academic progress.

In addition, the staff of the Registrar's Office, Academic Achievement Center, and the Dean of Undergraduate Studies are also available to assist students.

ACADEMIC ACHIEVEMENT CENTER

The Academic Achievement Center in Parenzo 102 is designed to provide the following services to students:

1) Assist students with the exploration of academic majors.
2) Assist students who have not yet declared a major with academic advising; i. e. course selection, the registration process, academic policies, and other academic concerns.
3) Provide students with academic support services including tutorial assistance.
4) Assist students in exploring strategies for academic success.
5) Review with students their academic progress and course needs.
6) Assist students with decisions regarding taking courses at other institutions during the summer, while on a leave of absence or on exchange.

URBAN EDUCATION PROGRAM

This program recruits high school and non-traditional students from diverse educational and ethnic backgrounds and provides these students with the academic and personal support to successfully complete their college program. Students who are recruited through this program participate in a pre-college summer bridge program aimed at enhancing basic skills and adjustment to the college environment. During the student's

academic career, tutorial and counseling support are provided, as well as courses in critical thinking and writing and workshops in computer applications and career planning. The program is committed to encouraging ethnic diversity and greater understanding of multicultural issues at the college. For further information, contact the program's director in Wilson 235, extension 391.

ACADEMIC SUPPORT/TUTORING

Academic assistance and tutorial support is provided through the Tutoring Center. The Center is operated by professional staff and supplemented with approximately 70 peer tutors.

Academic assistance is offered in writing, study skills and mathematics. Tutoring is also available in all areas of the college curriculum. Workshops are held in word processing. Software programs for computer-assisted instruction in specific content areas are also available.

The Center also coordinates the provision of support services to students who are physically challenged or learning disabled.

For further information, the Tutoring Center is located in Wilson 235, extension 391.

LIBRARY FACILITIES

The Governor Joseph B. Ely Library and Campus Center building houses more than 160,000 volumes, 1100 periodical titles, 7,500 reels of microfilm and 380,000 units of microfiche and microcard.

PRIVILEGES AT AREA LIBRARIES

Through a cooperative arrangement, Westfield State College students may register and borrow materials at the following libraries: American International College, Bay Path College, College of Our Lady of the Elms, Holyoke Community College, Springfield College, Springfield Technical Community College, Springfield City Library, Western New England College, Western New England Law Library, Westfield Athenaeum and the University of Massachusetts libraries.

ADDITIONAL EDUCATIONAL PROGRAMS

STUDY ABROAD PROGRAM

The International Education program offers opportunities for most liberal arts majors interested in study abroad programs and limited opportunities for practicum placements in the areas of Education, Mass Communication and Business.

The study abroad opportunities are available at pre-approved locations in England, Ireland, Scotland, Spain and in the Canadian Provinces of Quebec and Nova Scotia. Under special circumstances other locations may be made available.

Education Practicums are available in England, Ireland, and Northern Ireland. Special arrangements for practicums at other selected American schools abroad may be possible.

A minimum grade point average of 2.75 is required as well as approval of the major department chair and the director of the program. General information meetings are held at the beginning of each semester. The application deadline for the fall term candidates is April 1 and for spring term candidates, November 1.

For further information, contact the director or advisors of the program through the Dean of Undergraduate Studies.

NATIONAL EXCHANGE PROGRAM

The Division of Student Affairs administers a National Exchange Program with six universities: the University of Alaska (Fairbanks); Arkansas Tech University (Russelville); Delta State University (Cleveland, Miss); East Central State University (Ada, Oklahoma); University of Wisconsin (Platteville); and the University of South Dakota (Vermillion). The intent is to exchange four top notch undergraduate students each semester with each participating university. Students approved for National Exchange pay in-state tuition, room and board, and other fees assessed by Westfield State College and are housed at the exchange university of their choice. Students on exchange are responsible for their own travel and living expenses. Applications for the WSC National Exchange Program are available in the Office of the Campus Center Director, Ely Room 132.

The National Exchange Program is separate and distinct from the Study Abroad Program administered through the Dean of Undergraduate Studies.

COOPERATING COLLEGES OF GREATER SPRINGFIELD (CCGS)

The Cooperating Colleges of Greater Springfield (CCGS) program offers students the opportunity to take a course at one of the participating area colleges at no additional cost. Colleges participating in this program are: Springfield College, American International College, Western New England College, Bay Path College, College of Our Lady of the Elms, Springfield Technical Community College, and Holyoke Community College. For additional details please see the Registrar.

COLLEGE ACADEMIC PROGRAM SHARING (CAPS)

The College Academic Program Sharing program is designed to offer students the opportunity for an educational experience at another state college in Massachusetts. It is available to students in good academic standing and does not necessitate transferring. Students may participate in this program for one or two semesters, completing up to thirty credit. The filing deadline is December 15 for the Spring Semester and May 15 for the Fall Semester. Freshmen are ineligible. Colleges participating in this program are: Bridgewater State College, Fitchburg State College, Framingham State College, North Adams State College, Salem State College, Westfield State College, Worcester State College, Massachusetts College of Art, and The Maritime Academy. For details please see the Registrar.

RESERVE OFFICERS TRAINING CORPS

ARMY R.O.T.C.

Westfield State College, in cooperation with Western New England College and the University of Massachusetts, offers an Army Reserve Officers Training Corps program (ROTC) leading to the rank of Second Lieutenant in the active Army, Army Reserve, or the Massachusetts National Guard. The program is directed by the United States Army and is available to all students. Actual courses are taken off-campus, primarily at Western New England College, through the Cooperating Colleges of Greater Springfield. For additional information, contact the Army R.O.T.C. liaison person at Western New England College, (413) 782-3111 or 1332.

AIR FORCE R.O.T.C.

The Air Force Reserve Officers Training Corps (AFROTC) does not have its own program at Westfield State College; however, students can take the program while attending Westfield State College through the Cooperating Colleges of Greater Springfield (CCGS) agreement. The agreement allows students to take AFROTC courses at Western New England College in Springfield. Freshmen and sophomore courses can be taken without any commitment to the Air Force, and a 2-year program is available for any interested sophomore who decides to pursue the program during the spring of that year. Upon successful completion of the program (and receipt of a bachelor's degree), graduating students will receive commissions as Second Lieutenants in the U.S. Air Force. Two to three and a half year scholarships paying full tuition, lab, incidental fees, and $100.00 per month during school are available to students in all academic majors. Books are provided by the AFROTC. For additional information, contact the Professor of Aerospace Studies, at the University of Massachusetts, (413) 545-2437/2451.

THE DIVISION OF GRADUATE STUDIES AND CONTINUING EDUCATION

The Division of Graduate Studies and Continuing Education offers programs in three areas: graduate studies, undergraduate studies (part-time), and credit-free programs. Graduate programs include the Master of Arts in English and Psychology, the Master of Science in Criminal Justice, the Master of Education in 13 different concentrations, and the Certificate of Advanced Graduate Study in four education concentrations. In addition, the Division offers a post-baccalaureate teacher certification program which enables students already holding a bachelor's degree to receive certification.

Undergraduate programs are offered in every major available to Day Division students. Generally, necessary courses are offered in the evening, although some courses may have to be taken in the Day Division. Students who are pursuing their degrees part-time (less than 12 hours per semester) generally matriculate through the Division of Graduate Studies and Continuing Education. Financial aid is available for students in degree programs pursuing part-time study.

The credit-free program provides professional development programs such as the Alcoholism/Chemical Dependency Treatment Services Program, the Administrative Assistant and Paralegal Certificate programs, as well as a variety of home and business computer courses, personal enrichment courses and various seminars.

Credit and credit-free courses in the evening or on weekends are available to day students. However, because by law the Division must be financially self-supporting, students pay the established tuition and registration fees for the Division's courses.

For more information, contact the Division at (413)568-1992 or stop by the office, Parenzo 108, 9:00 AM - 7:00 PM Monday to Thursday, 9:00 AM - 5:00 PM Friday.

SCHOLASTIC REQUIREMENTS

COURSE LOAD

Fifteen (15) credit hours per semester is the normal academic course load of students at Westfield State College.

Students may enroll for up to eighteen (18) credit hours without special permission; however, students wishing to enroll for more than eighteen credit hours must secure the permission of their advisor, Department Chair, and the Undergraduate Dean. Course overload permission forms are available at the Registrar's Office.

As a guideline from the Academic Policy Committee, the maximum course load a student may carry in a given semester is 21 hours including both day and evening courses and programs. A student should have a minimum quality point average (QPA) of 2.50 to carry 19-20 credit hours and a minimum QPA of 3.00 in order to carry 21 credit hours.

Twelve (12) hours a semester is the minimum load for full-time day students. Graduating seniors carrying fewer than 12 credits are considered full-time during their last semester provided that they are carrying the number of credits needed to complete all their degree requirements.

Students carrying fewer than 12 hours lose their full-time status. Eligibility for residence hall space and financial aid may be affected. Students carrying fewer than 12 credits cannot represent the College in co-curricular activities. A student's eligibility for medical insurance coverage under a parent's policy may also be affected.

CLASS STANDING (YEAR OF GRADUATION)

Registration and housing priority are based upon a student's anticipated year of graduation, as determined by the number of credits the student will have completed by the end of the current semester. Year of graduation is evaluated at the beginning of each semester by the Registrar. Students who expect to graduate in four years should plan to complete 30 credits each academic year; students who fall more than 6 credits behind will have their year of graduation adjusted.

The table below lists the minimum number of credits students must complete by the end of each semester, in order to maintain their class standing.

	Fall	Spring
Freshman	9	24
Sophomore	39	54
Junior	69	84
Senior	99	114

GRADES AND CREDITS

QUALITY POINT SYSTEM

A student's quality point average (QPA) is computed at the end of each semester. The quaility point average is calculated for the semester, and a cumulative quality point average is calculated for all courses taken since the student's matriculation at Westfield.

Westfield State College uses a quality point system of:

A.....4.0	B.....3.0	C.....2.0	D.....1.0
A-....3.7	B-....2.7	C-....1.7	F.....0.0
B+....3.3	C+....2.3	D+....1.3	

CALCULATING A QUALITY POINT AVERAGE

1. For each course taken, multiply the numeric value of the grade earned by the number of credits the course carries.
2. Add all these values.
3. Divide by the total number of credits carried. Note that "F" grades count as credits carried, although they do not earn quality points.
4. Credits for courses taken Pass/Fail are not included in the calculation of a QPA.

FAILING GRADES

Grades of "F" can never be removed, but the courses in which they have been received may be repeated and passed, or, in the case of electives, other approved courses must be taken and passed either in approved Summer Sessions, or when possible during the regular college year. In these cases, both grades will appear on the transcript and will be used in the calculation of the quality point average.

INCOMPLETE GRADES

The grade of "I" (incomplete) is only to be assigned when 80% of the course work has been completed for a specific course. "I" grades become "F" grades unless the course work is satisfactorily completed during the first four weeks of the next semester. Under certain circumstances the deadline to complete "I" grades may be extended or reduced. Special permission forms to extend the deadline to complete the course work for "I" grades can be obtained at the Registrar's Office. The college's Committee on Academic Probation and Retention may require students to complete the course work on "I" grades early to determine if they are eligible to return to Westfield State College.

ACADEMIC RETENTION AND PROBATION POLICY

ACADEMIC PROBATION

Students who fall short of the required cumulative quality point average for their class standing (see below) yet are above an established minimum at the end of any semester are placed on Academic Probation for one semester. Students are removed from Academic Probation when they achieve good academic standing. Although students are generally placed on probation between semesters, students whose quality point average falls below the required cumulative quality point average for their class standing during the semester (due to a grade change) may be placed on probation during that semester.

Students who are placed on academic probation can register for only 12 semester hours of credit and will be prohibited from participating in all co-curricular activities during the semester in which they are on

probation. Co-curricular activities include intercollegiate athletics, intramural sports, clubs, social organizations, MTG, The Owl, Tekoa, WSKB, In Focus, student government organizations, or any other campus activity not directly connected to the requirements of a specific course. Students who violate this policy are subject to disciplinary action, and organizations which allow a student on probation to participate may jeopardize their funding or ability to function.

Mid-semester progress reports are issued by the Academic Achievement Center for all students on academic probation. Students on academmic probation are STRONGLY ENCOURAGED to review these reports and explore strategies for academic success.

Students may also be considered for probation or suspension by the committee if they received the grade of "F" in three or more courses during a given semester, even if they have maintained the quality point average for their level.

Students cannot be on Academic Probation for two (2) consecutive semesters.

ACADEMIC SUSPENSION

Students whose cumulative quality point averages fall below that required for their class standing at the end of a semester on academic probation are subject to academic suspension. Students may also be suspended without a semester on probation should their quality point average fall below the minimum academic standing level for their number of attempted credits (see below).

Students who are suspended will not be allowed to attend Westfield State College within the Day Division.

In order to return to the Day Division from academic suspension, students may repair their academic records to the appropriate level by attending courses at another institution or through the Westfield State College Division of Graduate and Continuing Studies. Cross-registration into day courses will not be allowed.

ACADEMIC DISMISSAL

Students who have returned to the Day Division from a previous suspension and who again fail to maintain their quality point average at the appropriate level may be dismissed from the College.

Students who are dismissed will not be allowed to attend Westfield State College within the Day Division.

In order to return to the Day Division from Academic Dismissal students must take a mandatory time out of two calendar years and repair their academic records at another institution or attend through the Westfield State College Division of Graduate and Continuing Studies. Cross-registration into day courses will not be allowed.

ACADEMIC STANDING LEVELS

CLASS OF 1992 - 1994

A student must obtain a cumulative quality point average of 1.5 for the Freshman year. (Attempted 36 credits or less)

A student must obtain a cumulative quality point average of 1.75 for the Sophomore year. (Attempted 37 to 66 credits)

A student must obtain a cumulative quality point average of 2.0 for the Junior year. (Attempted 67 credits or more)

A student must obtain a cumulative quality point average of 2.0 for the Senior year to be eligible to graduate.

Students with less than a 1.0 average are subject to suspension or dismissal as defined above.

CLASS OF 1995 AND AFTER

Students must maintain the appropriate quality point average for their class to continue at Westfield State College in good academic standing. The quality point average is based on the cumulative quality points and attempted credits from Westfield State College. The level of standing concerns the sum of credits attempted at Westfield State College plus any credits accepted in transfer if applicable.

Students must earn a cumulative quality point average of 1.5 while attempting up to 23 credits to be in good academic standing. Students with less than this average will be placed on probation or suspension. Students with less than a 1.0 average after attempting up to 23 credits will be suspended.

Students must earn a cumulative quality point average of 1.75 while attempting 24 to 47 credits to be in good academic standing. Students with less than this average will be placed on probation or suspension. Students with less than a 1.25 average after attempting 24 to 47 credits will be suspended or dismissed.

Students must earn a cumulative quality point average of 2.0 after attempting 48 credits to be in good academic standing. Students with less than this average will be placed on probation or suspension. Students with less than a 1.5 average after attempting 48 credits will be suspended or dismissed.

Students must earn a minimum cumulative quality point average of 2.0 as well as a minimum average of 2.0 in their major to be eligible to graduate. (Please note some majors may have a higher minimum requirement).

COMMITTEE FOR ACADEMIC PROBATION AND RETENTION

This policy is administered by the Committee on Academic Probation and Retention, which consists of the following members (or their respective designees):

Registrar (Chairperson)
Vice President for Academic Affairs
Vice President for Student Affairs
Dean of Undergraduate Studies
Director of Minority Affairs
Director of the Academic Achievement Center
Two Faculty Members (appointed by MSCA President)

Committee decisions are based on a simple majority vote of members in attendance.

Any exceptions to the foregoing policy based upon extenuating circumstances may be appealed in writing to the Committee on Academic Probation and Retention. Appeals should be filed with the Registrar.

SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID

See item 4 under FINANCIAL AID - POLICIES AND CRITERIA

ACADEMIC HONORS

THE HONORS PROGRAM

The Westfield State College Honors Program aims to provide interested and qualified students an avenue of advancing in the major field as far as their ability and enthusiasm will allow. A detailed brochure is available upon request. For additional information, speak to someone in the Academic Affairs Office.

DEAN'S LIST

In order to be cited by the Registrar for academic honors known as the Dean's List, a student must have:
1. An average of "B+" (3.3) or above during the semester.
2. No grade below "C" (2.0).
3. A program of at least 12 semester hours.
4. No grade of Incomplete.

GRADUATION HONORS

Cum Laude 3.30 to 3.59
Magna Cum Laude 3.60 to 3.79
Summa Cum Laude 3.80 or better

Students must have attended Westfield State College for a minimum of two (2) years, completing a minimum of 60 credit hours, to be eligible for graduation honors.

All transfer students in order to qualify for graduation honors must have all their collegiate academic credits computed to determine their cumulative quality point average.

WITHDRAWAL POLICY AND THE NOTATION OF A "W"

The notation of "W" is an administrative action, since it is a record of action taken by the student or administration and is not a reflection of the student's performance in the course. Withdrawals will be noted as follows.

1) Students may withdraw from a course without notation on their academic record during the first week of that course. The calendar dates for this process will be published in the course offering book. All withdrawals must be made through the Registrar's Office.

2) Students may withdraw during the second through eighth week of a course (second through fourth week for eight-week courses) by completing a WITHDRAWAL ONLY FORM and obtaining the professor's signature. This procedure is designed to inform the faculty member of the student's intent and action. The calendar dates for this process will be published in the course offering book. WITHDRAWAL ONLY forms must be signed and returned to the Registrar's Office by the due date. The notation of "W" will be placed on the student's record for the course(s) dropped.

3) Administrative offices can withdraw students for cause. Reasons for administrative withdrawal may include non-payment of tuition and fees, lack of health form information, academic failure or probation, over-enrollment in a single semester, and/or disciplinary action. The notation of "W" is made on the student's record for all courses dropped administratively.

4) Students who enroll for a course and fail to attend the first two class periods may be withdrawn from that course at the discretion of the professor. Students who are enrolled for eight-week courses or courses that meet only once a week may be withdrawn after missing the first class period.

5) Students who can document extenuating circumstances may be allowed to drop a course with a "W" notation on their transcript prior to the final exam. These students must complete a form explaining the extenuating circumstances and obtain signatures from the Dean of Undergraduate Studies and the professor of record for the course. Extenuating circumstances may include health problems or family problems but may not include poor attendance and/or poor academic performance.

6) For students who withdraw completely from the college prior to the beginning of final exams, the Registrar's Office will circulate a form for faculty to indicate whether the student was passing or failing their course at the time of the withdrawal. Students who are passing a majority of their courses may return to the college for the next academic semester. Students who are failing a majority of their courses would be prevented from returning in the next semester.

NOTE: Students are not permitted to withdraw from English Composition I or English Composition II.

PROCEDURE FOR WITHDRAWING FROM COLLEGE

Students leaving the college, either during a semester or between semesters, must complete WITHDRAWAL FORMS which may be obtained in the Registrar's Office. Students withdrawing from the college will receive a "W" in each course. Students who leave the college during a semester and do not "Officially Withdraw" will receive "F" grades in all courses.

POLICY ON STUDENTS CALLED TO ACTIVE MILITARY DUTY

1) Students who are unable to complete a semester because they are called to active United States military duty shall, upon verification, be granted the option of a refund or credit of tuition and campus fees. With respect to any health insurance fee, the refund policy is subject to the concurrence of the carrier.

2) Any students who have received any form of financial aid including a full or partial scholarship or student loan or who expect to receive such, should contact the financial aid office at the College to make appropriate arrangements.

3) Students shall receive non-punitive withdrawals in all courses from which they are required to withdraw.

4) Students residing in residence halls shall receive refunds on a pro rata basis for the remainder of the semester.

5) Verification of the call to service must be provided by furnishing the Registrar with a copy of the Order to Active Duty within one week of receipt of the order.

6) The institution's President may waive or suspend any institutional policy or regulation that negatively impacts students in their withdrawal or readmission to the institution due to a call to active duty.

7) Any student required to withdraw due to being called to active duty shall be given priority in enrollment in the program of his or her choice upon return to the institution for the two semesters immediately following his or her discharge from active duty.

ADDING COURSES

Students may add courses to their schedules during the first week of each semester. Please review the ADD procedure in the Course Offering Booklet.

DIRECTED/INDEPENDENT STUDY COURSES

Students desiring to enroll in departmental Independent Study projects must register for the course by filing an Independent Study/ Course by Special Arrangement form, available from the Registrar's Office. This form requires a description of each project and must be approved by the faculty member, department chairperson, and the Dean of Undergraduate studies. FRESHMEN ARE INELIGIBLE. Students may take only one independent study in any given semester and not more than four in their undergraduate work at Westfield State College. Students must register for the Independent Study credits within the first three (3) weeks of the semester.

PRACTICUM, INTERNSHIP AND CO-OPERATIVE EDUCATION COURSES

Students in good academic standing are eligible for Practicum, Internship, or Co-operative Education placement if they meet the departmental requirements for such placement.

No more than 15 academic credits combined of Practicum, Internship, or Co-operative Education may be applied toward graduation.

DECLARING A MAJOR

All students should be accepted into a major by the beginning of their junior year, or they may be subject to dismissal or denied permission to register for courses. In accepting students the college has an obligation to provide a complete program of study, including a major. However, the college may not be able to guarantee that there will be space available in all majors. Departments may establish specific requirements for entrance and retention in a major.

Students should consult the intended department, the Office of Academic Affairs, or the Academic Achievement Center.

CHANGING A MAJOR

Students wishing to change their majors must secure a "Change of Major Form" from the Registrar's Office. This form requires the approval of the Chair of the new department and release from the Chair of the original department.

ADDING A MAJOR

A student may complete the requirements for the major in two academic areas. To add a second major, students must secure a "Double Major Form" from the Registrar's Office. This form requires the approval of the Chair of the department the student is adding as the second major.

COMPLETING A MINOR

A student may include a minor in an academic area different from the major as part of his/her course of study. A minor generally consists of 18 credit hours. Details about specific minors are included in the departmental listings. During the semester in which the student is taking the final courses required to complete the minor, or after all the minor coursework has been completed, the student must file a "Completion of Minor" form. This form must be signed by the Chair of the department offering the minor and filed in the Registrar's Office. A notation of the minor earned is posted on the student's official transcript.

CLASS ATTENDANCE

The student classroom attendance regulations shall be determined individually by each member of the faculty who is responsible and accountable for stating these regulations clearly in writing at the beginning of each course of instruction. Students may be dropped from any class if they fail to attend during the first week.

EXAMINATIONS AND FINALS

All students are required to take each and every examination assigned by their instructors at the designated time and place. A final examination schedule is posted each semester. When a student misses a final examination with a valid reason, but has met all the other requirements of the course, the Incomplete grade is assigned. If a student misses an examination, instructors may offer a "make-up" examination at their discretion.

REQUIREMENTS FOR GRADUATION

Only students who have met the following requirements will graduate:

1. A cumulative quality point average of 2.00 or better.
2. Effective with the class of 1993, students must have a cumulative quality point average of 2.00 or better in the major. Major requirements are those in effect at the time the student matriculates into the major.
3. 120 successful credits. Successful credits require a grade of "D" or better.
4. Core requirements must be completed successfully.
5. Requirements of a major must be completed successfully.
6. Where a student has received an "F" in a required course, that course must be retaken; another course may be substituted if it would meet the same requirement.

Students should check with their advisors before their senior year to ensure that they have planned a course of study that will meet all of these requirements for graduation.

QUALITY POINT AVERAGE (MINIMUM) IN THE MAJOR

Effective with the class of 1993, a student shall be required for graduation to have a quality point average of 2.00 in his/her major.

PROCEDURES FOR GRADUATION

All students wishing to graduate at the end of the Spring semester must make formal application for graduation at the Registrar's Office by March 1. Students wishing to graduate in August must make formal application by July 1, and those wishing to graduate in January must make formal application by November 1.

It is the responsibility of each senior student to provide the Registrar with information and official transcripts concerning all course work completed outside the Westfield State College Day Division.

GRADUATION CEREMONY PARTICIPATION

At the discretion of the Vice President of Academic Affairs, students who have completed between 114 and 119 semester hours of credit may be allowed to participate in graduation ceremonies provided they make a written appeal (to the Vice President) and are able to complete the required credits to graduate by August following the ceremony.

CERTIFICATION FOR TEACHING

All graduates who satisfactorily complete the requirements of a college-approved program for teacher certification and complete the appropriate application materials are recommended for certification to the Massachusetts Department of Education.

The Commonwealth is in the process of changing teacher certification requirements. Students currently in teacher certification programs must complete all requirements by October 1, 1994 in order to be certified under the old requirements.

Students completing their certification requirements after this date must fulfill additional requirements to be granted a provisional certification. These students must complete a liberal arts or sciences major or approved interdisciplinary major, together with education course work. Full certification under the new regulations will require a clinical master's degree. Entering transfer students will be advised into the old or new program based upon an evaluation of their prior work. Transfer students following the old program must complete requirements by October 1, 1994.

For further information, contact the chairperson of the college's Department of Education in Parenzo 213.

REQUESTING TRANSCRIPTS

Transcripts are issued by the Registrar's Office. Transcripts must be requested in writing by the student. Telephone requests are not accepted. There is a one dollar ($1.00) fee for each transcript. Official transcripts are not issued to students or graduates.

ACADEMIC POLICIES OF WESTFIELD STATE COLLEGE

Students should also review the Policies and Regulations found in the Student Handbook which is published by the Division of Student Affairs.

ACADEMIC FREEDOM AND RESPONSIBILITY

The Board of Trustees and the Massachusetts Teachers Association/NEA endorse the principles and standards of academic freedom and academic responsibility as generally and traditionally accepted in institutions of higher education. They agree to promote public understanding and support of academic freedom and agreement upon procedures to assure academic freedom in colleges and universities. Institutions of higher education are conducted for the common good and not to further the interest of either the individual teacher or the institution as a whole. The common good depends upon the free search for truth and its free exposition. Academic freedom is essential to these purposes and applies to both teaching and research.

Academic freedom is the right of scholars in institutions of higher education to study, discuss, investigate, teach, exhibit, perform, and publish. Freedom in research is fundamental to the advancement of truth. Academic freedom in its teaching aspect is fundamental for the protection of the rights of the teacher in teaching and of the student in learning.

The teacher is entitled to full freedom in research and in the exhibition, performance, and publication of the results of his/her research, to full freedom in the classroom in discussing his/her subject, and most specifically in the selection of classroom materials including selection of texts. The teacher is entitled to discuss controversial issues. As both a teacher and scholar he/she recognizes a professional obligation to present various scholarly opinions and to avoid presenting totally unrelated materials.

Faculty members have the right to determine the amount and character of the work and other activities they pursue outside the College provided such work and other activities do not interfere with the discharge of their responsibilities.

ACADEMIC HONESTY

Academic honesty is expected of all students. Plagiarism and cheating are not condoned and are subject to an academic penalty, which may be failure for the course in which the violation took place. A record of the violation is submitted to the Office of Academic Affairs and repeated offenses may result in suspension or dismissal from the College. Violations of academic honesty include cheating on examinations, plagiarism, and submission of papers for credit in two or more classes, to name a few examples.

EXAMINATIONS

Violations of academic honesty with regard to examinations consist of the following:

1. Receiving assistance or assisting others while the examination is in progress.
2. Obtaining or attempting to obtain prior an examination, copies of the examination or the questions to appear on the examination.
3. Obtaining or attempting to obtain any unauthorized knowledge regarding the exam or the questions to appear on the examination from another student who possesses information regarding the contents of the exam.
4. Disseminating any written or verbal information regarding the contents of an examination to students who have not yet completed or taken said examination.
5. Utilizing or consulting any unauthorized information, such as notes or books, during an examination.

PLAGIARISM

Plagiarism will not be tolerated. Plagiarism consists of utilizing the work, words, or ideas of another person as if they were your own. All papers must have proper footnotes and references.

MULTIPLE SUBMISSIONS OF A SINGLE PAPER

Instructors are not required to accept a term paper submitted in other courses, i.e., a student may not submit the same research paper for credit in two classes within the college without prior written consent from both instructors.

COPYING COMPUTER SOFTWARE

The software installed on the College computers is protected by copyright laws, and the College has purchased the right to run this software. It does not have the right to make unlimited copies of this software. Making unauthorized personal copies of installed software is against the law.

COURSES TAKEN AT OTHER INSTITUTIONS AFTER MATRICULATION

For students to have courses taken at other colleges count toward their major or core requirements, prior permission must be obtained in writing from the chairperson of the of the department wherein the course to be taken lies. Students should note that such permission is granted under conditions specified prior to registration.

College courses taken without this written permission will be accepted for elective credit only until such permission has been granted.

Upper level courses may not be taken at a community or junior college. No credit will be awarded for such courses.

Any grade of "D" or better is acceptable for transfer credit. NOTE: a grade of "D-" is unacceptable for transfer credit.

Students wishing to appeal the denial of permission to take courses or the denial of credit for courses taken should do so in the Office of Academic Affairs.

GRADE APPEALS

If a student wishes to appeal a grade, the appeal must be initiated through the Academic Affairs Office by the end of the fourth week of the semester after the course was taken.

PASS/FAIL POLICY

Note that the Pass/Fail policy is implemented differently for one credit introductory level courses and for upper (200 and 300) level courses.

FOR ONE (1) CREDIT 100-LEVEL COURSES

Departments may offer one (1) credit 100-level courses: 1) Pass/No Record, 2) Pass/Fail, and/or 3) for a letter grade. Within the first three (3) weeks of the semester, students must agree upon a grading option with the faculty member teaching the course.

For Pass/No Record courses, if a student earns a Pass (PS) grade the credit earned applies towards graduation credits only. If the student fails the course, the Fail (FL) grade and the course notation proper are removed from the student's academic record.

For Pass/Fail courses, if a student earns a Pass (PS) grade the credit earned applies towards graduation credits only. If the student fails the course, the Fail (FL) grade appears on the student's academic record but is not be used to calculate the student's quality point average.

FOR 200/300-LEVEL ELECTIVE COURSES

The intent of this policy is to encourage juniors and seniors to take upper level elective courses outside of their major or the core without concern for lowering their quality point average.

No course in the major (home) department or any required course outside the major department may be taken on a Pass/Fail basis. Only elective courses above the 100-level are eligible for the Pass/Fail option.

No course eligible for common core credit may be elected for the option.

Only students with junior or senior status are eligible for the option.

No more than two courses above the 100-level, not to exceed 8 credits, may be taken on a Pass/Fail basis.

Eligible students must apply for Pass/Fail status with the Registrar no later than the midpoint of the course (as established by the Registrar).

Faculty must submit a letter grade for each student in the course, thereby making the faculty member "blind" to which students are opting for Pass/Fail status. The Registrar will convert the student's grade to Pass/Fail on the student's transcript.

Both the Pass "PS" and the Fail "FL" will be noted on the transcript, but neither will affect the student's cumulative quality point average.

Once the Pass/Fail option is selected, the choice is binding.

NON-ACADEMIC POLICIES OF WESTFIELD STATE COLLEGE

DRUG POLICY

1. The Westfield State College Board of Trustees in upholding State laws and regulations and in supporting the mission of the College requires its agents to enforce College regulations regarding the unlawful use or possession of controlled substances, drugs or drug paraphernalia on the Westfield State College campus. Any student found in possession of an illegal drug substance or drug related paraphernalia and found guilty of a first offense of such possession shall remain as a student on a probationary basis provided the student completes a drug rehabilitation program prescribed by the Office of Student Affairs at the student's expense.

2. Any student found guilty of a second offense of possession of an illegal drug substance or illegal drug paraphernalia shall be suspended from the College for the remainder of the semester and the next full semester with the possibility of returning to the College pending drug counseling and by the decision of the Vice President for Student Affairs with no right of return after a third offense.

3. Students found guilty of the sale or distribution of controlled substances or drugs on the Westfield State College campus by the College Student Judicial System will immediately be suspended from College for the current semester plus one (1) complete Academic year.

Students may apply for readmission through regular College procedures on written recommendation from an ad hoc committee of students and administrators appointed by the Student Senate President and the Vice President of Student Affairs to review the case. The review will include, but not be limited to, documentation from the student that he/she has undergone drug counseling. The student, if readmitted, will be on a probationary status for one year with no right of return after a second offense.

4. A comprehensive process of dissemination of this policy shall include its inclusion in the Student Handbook, the College Catalog and other appropriate publications; its discussion at all orientations of new and transfer students; and its regular review and dissemination by resident and student affairs staff.

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act of 1974 which took effect on November 19, 1974, assures confidentiality of education records containing information directly related to a presently enrolled student, a former student or alumnus/a.

Unless a student specifically requests in writing that his/her prior consent be obtained, an educational institution may make public "Directory Information" about a student: name, address, date and place of birth, telephone listings, schools attended, degrees and awards received, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, most recently attended educational institution.

A request made by students to suppress from public distribution the above mentioned information is to be made in writing annually to the office of the Vice President, Student Affairs, no later than October 1 of the academic year for which the information is being made public.

As this law is interpreted at Westfield State College, the Collge may not release information about a student's academic performance or any other aspect of a student's college life to anyone, including the student's parents, except upon the written authorization of the student. If a student is declared as a dependent on a parent's Federal Income Tax Form, the parent has a right to this information. It is up to the parent to establish the dependent status of the student, or to the student to provide written authorization to the college to release such information to the parent.

Further information on the Family Education Rights and Privacy Act of 1974 may be obtained from the Office of the Vice President, Student Affairs, or the Registrar.

PRIVACY AND CONFIDENTIALITY REGULATIONS

Privacy and Confidentiality regulations are promulgated pursuant to the provisions of General Laws Chapters 73 and 15, Section 20A, and the requirements of General Laws Chapters 66A, 30 (Section 63), and Chapter 214 (Section 3B), all as inserted by Chapter 776 of the Acts of 1975. The procedures set forth provide for the manner in which members of the College community and others shall have access to personal data in the possession of the State College.

For full details on the Privacy and Confidentiality Regulations please see the complete copy of the regulations posted at the college and/or contact the Office of the Vice President, Student Affairs.

HAZING LAW - CHAPTER 665

Students are advised to be familiar with the Massachusetts General Laws, Chapter 269, Sections 17, 18, and 19 relative to the crime of hazing. A copy of the law is printed in the Student Handbook. Once a year a copy of the law is distributed with the billing and students must sign the billing statement to acknowledge receipt of the law.

MEDICAL HISTORY FORM AND EVIDENCE OF IMMUNIZATION

Westfield State College requires that all incoming students have a Medical History Form and evidence of updated immunizations on file in Health Services. Massachusetts General Laws, Chapter 75, Section 15c, requires that all students born as of January 1, 1957 and matriculated in institutions of higher education furnish evidence of immunizations. The college regards the submission of these materials as part of the registration process. Students who do not submit such evidence by the date established by the college will be administratively withdrawn. Students who are administratively withdrawn may not reenter until the following semester, and then only upon payment of a reentry fee and submission of the required forms.

POLICY OF NON-DISCRIMINATION

Westfield State College, both as an employer and as an educational system, is committed to the principles of non-discrimination and equal opportunity for all persons. These commitments are actively pursued in all aspects of both campus and community relationships.

Westfield State is committed to a policy of affirmative action in its educational programs, activities and employment practices.

The College maintains and promotes a policy of non-discrimination on the basis of race, religion, color, sex, age, handicap, marital status, or national origin. This policy incorporates by reference the requirements of Federal Executive Orders 11246 and 11375 as amended; the Civil Rights Act of 1964 as amended; Title IX of the Educational Act of 1972; Section 503 and 504 of the Rehabilitation Act of 1973; Section 402, Vietnam Era Veterans Readjustment Assistance Act of 1974; and pertinent Laws, Regulations and Executive Directives of the Commonwealth of Massachusetts, including regulatory procedures set forth under Chapter 820 of the Acts of 1973; and other applicable state and federal statutes.

SEXUAL HARASSMENT POLICY

Sexual harassment in educational institutions is not simply inappropriate, undermining the integrity of academic and employment relationships; it is also against the law. Both the Federal Courts and the Equal Employment Opportunity Commission (EEOC) have ruled that sexual harassment constitutes a form of sex discrimination, as defined under Title VII of the Civil Rights Act of 1964 and included in Title IX of the Educational Amendments of 1972.

Sexual harassment consists of unsolicited verbal, nonverbal and/or physical contact which has the effect of interfering with student or employment status or creating an intimidating, hostile, or offensive environment. Behavior may be considered sexual harassment when: 1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or education; 2) submission to or rejection of such conduct is used as the basis for academic or employment decisions affecting that individual; and 3) such conduct has the purpose or effect of interfering with an individual's academic or professional performance or creating an intimidating, hostile, or offensive employment, educational or living environment.

Many relationships in a college community are, by the nature of the roles people have, unequal, for example, between student and administrator or faculty member or between staff member and supervisor. Members of the college community should be sensitive to the existing inequalities that exist within these relationships and should be careful not to abuse them.

Westfield State College is committed to promoting an environment free from any form of harassment, to educating the community regarding sexual harassment, and to taking prompt and corrective action, including appropriate disciplinary action, where sexual harassment has occurred.

If any member of the college community believes he/she has been the victim of sexual harassment, he/she should seek the assistance of the Affirmative Action Officer, a member of the Affirmative Action Advisory Committee, or any member of the college's staff. It is important that the harassment not be allowed to continue.

Several procedures have been set up by the college to resolve these problems. First, the individual may seek informal resolution of the problem through the Affirmative Action Officer. With the individual's consent, the Affirmative Action Officer will meet with all parties in an effort to secure a prompt and equitable resolution and shall transmit his/her findings and recommenda-

tions to the parties in writing. An individual may also pursue formal procedures by filing a written complaint within 40 days of the event upon which the complaint is based. In these procedures a formal hearing and investigation are conducted and a written response is submitted to all parties. The formal hearing is conducted by the Affirmative Action Officer, but findings may be appealed within 10 days of receipt of the findings to the Chief Administrative Officer of the individual accused in the complaint, and beyond that, to the President of the college. Due process shall be followed in these hearings, including the right to a copy of the charges prior to the meeting, the right to have representation present in an advisory capacity, the right to present evidence and witnesses, the right to question, and the right to receive a written copy of the findings and recommendations. The decision to seek resolution through the college's procedures shall not prevent an individual from filing charges with the appropriate federal or state agency.

For more information, contact the college's Affirmative Action Officer, Parenzo 104, extension 216.

EARNING A DEGREE

COURSES OF STUDY: ACADEMIC MAJORS

Westfield State College students must complete the course work for a major in one of the following areas (see department course listings for specific major requirements):

- Applied Chemistry
- Art
- Biology
- Business Management
- Computer Science
- Computer Information Systems
- Criminal Justice
- Economics
- English
- French
- General Science
- History
- Liberal Studies
- Mass Communication
- Mathematics
- Movement Science
- Music
- Political Science
- Psychology
- Regional Planning
- Social Science
- Spanish

MINORS

Students may earn a minor within an area different from their major. See departmental listing for information about minors.

Westfield State College students may minor in many of the areas listed above as well as in the following areas:

- Chemistry
- Geography
- Journalism
- Latin American Studies
- Philosophy
- Sociology/Social Work
- Speech and Theatre Arts
- Women's Studies

BACHELOR DEGREES BY MAJOR

BACHELOR OF SCIENCE DEGREE

- Biology
- Business Management
- Computer Science
- Computer Information Systems
- Chemistry
- Criminal Justice
- General Science
- Liberal Studies
- Movement Science
- Regional Planning

BACHELOR OF ARTS DEGREE

- Art
- Economics
- English
- French
- History
- Liberal Studies
- Mass Communication
- Mathematics
- Music
- Political Science
- Psychology
- Social Science
- Spanish

BACHELOR OF SCIENCE IN EDUCATION
(degree to be offered until 1994)

- Elementary Education
- Special Education

COURSE PATTERN FOR A DEGREE

One hundred and twenty credits are required for graduation. These credits are distributed among courses that satisfy the common core; courses required for the chosen academic major; and electives, which may include courses that fulfill the requirements of an academic minor.

COMMON CORE

All students must complete a total of 40 semester hours, distributed among the different academic areas as follows:

Humanities (18 credits)
- Communications (Composition): 6 credits
- Intellectual and Moral Criticism: 6 credits
- Appreciation of Fine Arts: 6 credits

Social Science (12 credits)
- State and Local Government: 3 credits
- Social Understanding: 9 credits

Analytical Science (10 credits)
- Natural Science: 4 - 7 credits
- Mathematical Reasoning: 3 - 6 credits

The foundations of the Common Core are disciplinary forms within which students select specific courses. The goals of the Common Core are to introduce students to areas of study which are seen as necessary ingredients for a cultivated, humane life.

In meeting the requirements of the Common Core, Westfield students acquire:

1. The capacity to communicate clearly in one or more natural languages
2. The capacity for intellectual and moral criticism
3. An appreciation of the fine arts
4. An understanding of the machinery of state and its history
5. The capacity for social understanding
6. An understanding of natural science
7. An understanding of mathematical reasoning.

COMPOSITION COMPONENT OF CORE

All students must complete EN 101 and EN 102, english composition I and II. These two courses constitute a unit which all students must complete within the first two semesters in which they are enrolled at Westfield State College. Any exceptions to this policy must be approved by the Chair of the English Department. Note that students are not permitted to withdraw from EN 101 or EN 102 and that both courses are a prerequisite for 200 level core English classes.

MAJOR

Courses in this segment are pre-scribed by the department wherein the major is housed and total approximately forty hours of credit. For specific major program requirements, see the departmental section in this catalog.

ELECTIVES

Students select elective courses according to their personal interests, except for the students majoring in elementary or special education, who may be required to take specific electives to satisfy certification requirements.

DEPARTMENTAL PROGRAMS

In this catalog, there are separate sections for each academic department and interdisciplinary program within the College. These are arranged alphabetically.

Not every course in the following listing is offered annually. Definite information about course offerings and class hours is available at the time of registration through the Office of the Registrar. Insufficient enrollment or changing conditions may occasionally necessitate the withdrawal of scheduled courses.

Please check with appropriate departments to determine if the courses sought are being offered and when they are scheduled. This will be important in planning a program of classes for the year, and for designing a four-year program in order to meet degree requirements.

The course numbering system is as follows:

100 Lower Level Courses
200 Upper Level Courses (Undergraduate credit only)
300 Upper Level Courses
400 Graduate Credit courses only

COMMON CORE OF STUDIES

HUMANITIES SECTION

1. Communications (6 hours)

English	EN 101 - 102	English Composition I & II

2. Intellectual and Moral Criticism (6 hours)

Philosophy	PH 101	Intro. to Soc. & Pol. Philosophy
	PH 102	Intro. to Ethics
	PH 104	Great Philosophical Issues
	PH 107	Major Religions of the West
	PH 108	Major Religions of the East
	PH 110	Intro. to Philosophy of Science
Literature	EN 213	Major British Writers
	EN 215	Major American Writers
	EN 221	World Literature to 1750
	EN 222	World Literature Since 1750
	EN 228	Introduction to Shakespeare
Language	LE 101	French Culture
	LE 102	German Culture
	LE 103	Italian Culture
	LE 104	Hispanic Culture
	LF 101 - 102	French I & II (both needed for core crt)
	LF 103 - 104	French III & IV
	LF 120	Intensive French
	LF 200	French Conversation
	LG 101 - 102	German I & II (both needed for core crt)
	LG 103 - 104	German III & IV
	LG 120	Intensive German
	LG 200	German Conversation
	LI 101 - 102	Italian I & II (both needed for core crt)
	LI 200	Italian Conversation
	LJ 101 - 102	Japanese I & II (both needed for core crt)
	LL 100	Essentials of Latin
	LL 101	Introduction to Study of Language
	LP 101 - 102	Portuguese I & II (both needed for core crt)
	LS 101 - 102	Spanish I & II (both needed for core crt)
	LS 103 - 104	Spanish III & IV
	LS 120	Intensive Spanish
	LS 200	Spanish Conversation

3. Appreciation of Fine Arts (6 hours)

Art	FA 104	Design Fundamentals
	FA 106 - 107	Art Survey I & II
Music	MU 101 - 103	Music Appreciation
	MU 110 - 111	Basic Music Theory
	MU 160	History of Jazz
	MU 107	Music in America
Drama	EN 104	Introduction to Theatre

SOCIAL SCIENCE SECTION

1. State and Local Government (3 hours required by law)

History	HI 130	U.S. History and Government
Political Science	PL 101	American National Government

2. Social Understanding (9 hours - 6 maximum in one area)

Economics	EC 101	Principles of Macroeconomics
	EC 102	Principles of Microeconomics
Geography	GP 101	Principles of Geography
History	HI 101 - 102	Western Experience I & II
	HI 150	History of Non-Western World
Political Science	PL 101	American National Government
	PL 103	State and Local Government
Psychology	PY 101	General Psychology
Sociology	SO 101	Principles of Sociology

ANALYTICAL SCIENCE SECTION (10 hours including one (1) math and one (1) lab science)

1. Natural Science

Physical Science	PS 101	Physical Science
	PS 104 - 105	Physical Geology & Lab.
	PS 106	Historical Geology
	PS 107	Intro. to Chemistry
	PS 109 - 111	General Chemistry I & II
	PS 113	Introduction to Physics
	PS 115 - 117	General Physics I & II
	PS 119 - 121	Physics I & II
	PS 133	Astronomy
Geography	GP 102 - 103	Physical Geography & Lab.
Biology	BI 102	Environmental Biology
	BI 104	Biology of Organisms
	BI 106	Inheritance & Development

2. Mathematical Reasoning

Mathematics	MA 104	Precalculus
	MA 105 - 106	Calculus I & II
	MA 108	Elementary Statistics
	MA 110	Mathematical Explorations
	MA 111	Mathematical Applications
	MA 115	Math. for Bus. & Soc. Sci.
	MA 127	Calculus for Bus. & Soc. Sci.
	MA 150	Foundations/ Sets & Logic
	MA 251	Foundations/ Geometry
	MA 252	Foundations/ Probability & Stats
	MA 253	Foundations/ Number Systems
Philosophy	PH 103 - 206	Symbolic Logic I & II

ART

The emphasis in the visual arts program is placed on the development of a strong two-dimensional capability through drawing and painting.

In addition to the major program, the Art Department offers various minors and concentrations. Internships are available in the Graphic Design concentration as well as the Teaching Certification concentration. All courses are open to students who meet the proper prerequisites.

The Arno Maris Art Gallery, located in the college library, is staffed by the Art Department and presents national and international exhibitions, as well as an annual student exhibition. The department also maintains a College Collection containing many fine works of art which are exhibited periodically.

The art studios are open to all art majors for all of their studio-related projects. Students may participate in various fine arts clubs which, along with the department, sponsor field trips to galleries throughout the year. Field trips to galleries in New York City and Boston are a regular part of student activities.

REQUIREMENTS FOR ART MAJORS

FA 101	Materials and Safeguards (1)
FA 104	Design Fundamentals (3)
FA 209	Color Theory and Practice (3)
FA 103	Drawing I (3)
FA 330	Anatomy for the Artist (3)
FA 301	Drawing II (3)
FA 102	Painting I (3)
FA 202	Painting II (3)
FA	Advanced Painting (3)
FA 204	Pottery I (3)
FA 201	Printmaking I (3)
FA 205	Sculpture I (3)
FA	One studio elective (3)
FA	Two advanced level art history courses (6)

And one of the following:

FA 303	Printmaking II (3)
FA 304	Pottery II (3)
FA 305	Sculpture II (3)

Art majors are also expected to take FA 106 and FA 107, Art Survey I and II to satisfy the Fine Arts requirement of the common core.

Art majors must complete a minimum of 27 credits of course work within the Art Department at Westfield State. Students are advised to consult their advisors for information on course sequencing and and general core requirements.

Art majors intending to pursue graduate work beyond their major are advised to take additionally recommended studio courses of their choice. It is also advisable to include more than the minimum requirementts in Art History.

ART MAJOR/GRAPHIC DESIGN CONCENTRATION

For the Art Major interested in a career in Graphic Design or commercial advertising, the following program concentration is recommended:

Graphic Design Courses - 18 credit hours:

FA 206 Lettering and Layout (3)
FA 328 Graphic Design I (3)
FA 210 Typography (3)
FA 344 Graphic Design II (3)
FA 108 Computer Graphics for Art Application I (3)
FA 329 Illustration I (3)

Additional Electives Available:

FA 212 Computer Graphics for Art Applications II (3)
FA 343 Illustration II (3)
FA 348 Portfolio Preparation (3)

The Commercial Art Practicum (FA 340), an 8-16 week on-the-job experience in a commercial advertising agency or design department, may be taken for 6-12 credits upon completion of the required 18 credits for the graphic design concentration.

ART MAJOR/FINE ARTS CONCENTRATION

For the art major who is interested in a career in fine arts or preparation for graduate school in studio art (MFA), an additional 18 credits of 200 and 300-level courses are recommended beyond the art major requirements, to be selected from the following:

Advanced Studio Courses (3-6)
Advanced Drawing (3)
Advanced Elective (3)
FA 348 Portfolio Preparation (3)
FA 399 Thesis (3-6)

ART CERTIFICATION PROGRAM

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach art, must complete all the requirements of the Art major. In addition, they must complete an additional 23 credit certification sequence for either Elementary (N-9) or Secondary (5-12) certification, as follows:

ELEMENTARY

ED 221 Equity in Education (3)
FA 323 Introduction to Art Education (3)
FA 324 Art Methods/Materials (3)
FA 322 Art Education Curriculum (Elementary) (3)
PY 202 Child Psychology (3)
FA 331 Practicum (N-9) (6)

SECONDARY

ED 221 Equity in Education (3)
FA 323 Introduction to Art Education (3)
FA 324 Art Methods/Materials (3)
FA 322 Art Education Curriculum (Secondary) (3)
PY 203 Adolescent Psychology (3)
FA 351 Practicum (5-12) (6)

In addition, during the last semester of their senior year, students must take a 2 credit practicum seminar.

Every effort will be made to provide a timely sequence of courses in order to fulfill graduation and teaching certification courses, but there may be instances where this is impossible.

If any questions arise concerning sequence, time of student teaching, etc., please contact the Program Coordinator, Art Education Certification.

The Interstate Certification Compact (I.C.C.) is a legally based teacher certification reciprocity agreement among 32 states. Its value for students is that it provides reciprocal certification in the member states. Membership in I.C.C. is often an aid in job acquisition in non-member states as well.

The following state are I.C.C. certified:

Alaska	Maryland	Rhode Island
California	Massachusetts	South Carolina
Connecticut	Minnesota	South Dakota
Delaware	Nebraska	Utah
Florida	New Hampshire	Vermont

Hawaii	New Jersey	Virginia
Idaho	New York	Washington
Indiana	North Carolina	West Virginia
Iowa	Ohio	Wisconsin
Kentucky	Oklahoma	Panama Canal Zone
Maine	Pennsylvania	

ART HISTORY COURSES

FA 106 ART SURVEY I (3) Major representative works of western art and architecture from prehistoric times through the middle ages will be presented from a critical and historical viewpoint. The student will be introduced to the aesthetic and philosophical principles that underlie all art as well as to the relationship between the visual arts and the culture and society which produced them.

FA 107 ART SURVEY II (3) The study of western art and architecture from the Renaissance to the present will be presented under the same format as ART SURVEY I.

FA 316 HISTORY OF AMERICAN ART (3) A study of the painting, architecture and practical arts in the United States from the period after colonial times to the present.

FA 317 CLASSICAL ART (3) The chief artistic accomplishments of ancient Greece and Rome. Extensive study into the realm of Greek and Roman architecture, classical sculpture, building and portraiture, as well as the minor arts.

FA 318 FLEMISH ART (3) Study of Netherlandish painting of the 14th through 16th century works of art, from Jean Pucelle to Brueghel.

FA 319 RENAISSANCE ART (3) A study of the major artistic achievements of the Italian Renaissance from Giotto to Michaelangelo with special emphasis on painting and sculpture.

FA 321 CONTEMPORARY ARTISTS AND CONTEMPORARY ART (3) Students will be introduced to the works and ideas of modern contemporary American artists since 1950 with reference to the influence of selected European modern artists. Museum trips are included.

FA 333 EARLY TWENTIETH CENTURY ART (3) A study of modern movements in painting and sculpture from 1900 to 1940 including Fauvism, Cubism, Futurism, and Surrealism.

FA 334 NINETEENTH CENTURY ART IN EUROPE (3) A study of European painting and sculpture from the Romantic-Classical styles of David and Delacroix through the Post-Impressionism of Paul Gauguin.

FA 338 EARLY CHRISTIAN AND BYZANTINE ART (3) A study of the sources and development of art of Christian West to 600 A.D. and of Byzantium to 1435. Attention will be given to the emergence of a Christian form of artistic expression and its connection with the heritage of late antique art, Byzantine architecture, its monumental mosaic and fresco decoration, manuscript illumination and icon painting.

FA 341 17th CENTURY ART (3) A study of formation and evolution of the Baroque movement in European architecture, sculpture and painting. Emphasis will be given to the individual styles and artistic ideas, as shown in works and writings of selected major artists of the 17th century.

FA 345 CRITICISM (3) Classical and contemporary theories of art with emphasis on concepts involved in the interpretation, evaluation and criticism of works of art. Prerequisite: FA 106 and 107 or equivalent.

FA 346 JAPANESE ART AND ARCHITECTURE (3) Japanese Art and Architecture, their Chinese sources and problems of evolution. Also, the social and cultural changes with the aesthetic output.

FA 347 NON-WESTERN TRADITIONS IN MODERN EUROPEAN AND AMERICAN ART (3) A study of selected problems including: The meaning of Japanese color prints in the development of Impressionism and Post-impressionism; Modern Primitivism and its relation to the African sculpture and the art of primitive peoples; and the significance of Japanese traditional architectural concept for Modern Japanese, European and American architecture. The emphasis will be placed on the new relation between form and space developed under the condition of the crisis of the traditional western three-dimensional system of representation.

FA 350 CONTEMPORARY ART AND CONTEMPORARY BEHOLDER (3) This seminar will examine the fundamental characteristic of Modern Art, i.e. its nonrealistic nature. Students will study why it has proved difficult for viewers to accept and critics to explain that works of Modern Art are not descriptions or illusions of actuality. Main trends of Modern Art, such as Cubism, Abstractionism, and Abstract Expressionism will be investigated. The works of Picasso, Kandinsky, Malevich, Mondrian, and others will be analyzed in relation to traditional Western European Art and the validity of its traditional criteria.

STUDIO COURSES

FA 101 MATERIALS AND SAFEGUARDS IN ART (1) Is designed to outline the basic art media and materials used in studio art. Emphasis is placed on safeguards in utilizing art materials.

FA 102 PAINTING I (3) Painting I is an introduction to oil painting for those with little or no experience. This course acquaints the student with the fundamental aspects of painting: preparing the canvas, underpainting, preliminary drawing and basic painting techniques. Emphasis is placed on "how to get started".

FA 103 DRAWING I (3) Drawing I presents the study of structure in form and space through the creation of three-dimensional illusions on two-dimensional surfaces. Line, texture, value and shape are introduced in addition to linear and atmospheric perspective, life drawing, and various media.

FA 104 DESIGN FUNDAMENTALS (3) An investigation of the basic elements of art: line, shape, tone, texture, form, and space. These design elements are explained in theory as well as practice. The expressive possibilities of a variety of materials are also explored.

FA 105 THREE DIMENSIONAL DESIGN (3) This course will address the basic fundamentals of 3-dimensional design. Students will learn a shared vocabulary of visual and verbal elements as a means to design and construct three dimensional objects. Classes will be a combination of studio, lecture and critique/discussion sessions.

FA 201 PRINTMAKING I (3) The basic techniques in intaglio and relief printmaking will be explored. The intaglio procedures of line etching, aquatint, sugarlift and soft ground will be introduced. Collographs (a multimedia technique) and woodcuts (a relief printing process) will also be utilized. Students will create a series of prints in the various techniques and will develop an awareness of the visual and technical aspects of an original print.

FA 202 PAINTING II (3) Painting II is a continuation of the fundamental aspects of painting using oil, acrylic, and watercolor. Students have the opportunity to paint from the still-life and model in both a representational and non-representational manner. Technical aspects of painting are explored, including the techniques of underpainting and glazing. Prerequisite: FA 102.

FA 203 PAINTING III: WORKS ON PAPER (3) This course is for painting majors and those interested in furthering their illustration techniques. Painting on paper will be examined through various aqueous media, collage, pastel and mixed media. Prerequisite: FA 202.

FA 204 POTTERY I (3) An introduction to all phases of creative ceramics, ranging from hand built pottery to slab sculpture and mosaics. Emphasis will be on exploration of the many decorative, functional and aesthetic aspects of ceramics.

FA 205 SCULPTURE I (3) Provides an elementary consideration of sculpture through form and composition and includes studies in clay and plaster. There is some work from the human figure. Techniques include mature constructions, direct building in plaster, and casting into plaster and other materials.

FA 207 WATERCOLOR (3) This course will emphasize the visual dynamics of the watercolor medium: its transparency and ability to interact directly with the paper (ground) to produce colors, textures, and forms. Through a series of exercises, the student will have an opportunity to develop skills and master the techniques of the medium. Prerequisite: FA 202.

FA 207 WATERCOLOR PAINTING I (3) The various techniques of watercolor painting will be demonstrated. Studio work will consist of painting with a variety of methods.

FA 209 COLOR THEORY AND PRACTICE (3) The study of interaction of color in theory and practice through experimentation with various color media.

FA 301 DRAWING II (3) Drawing II is a continuation of Drawing I. The focus is on the individual's needs as they develop a basic understanding of drawing. Emphasis is placed on life drawing in various media. Prerequisite: FA 103.

FA 302 WATERCOLOR PAINTING II (3) A continuance of Watercolor Painting I, with mixed media, including gouache. Prerequisite: Watercolor Painting I.

FA 303 PRINTMAKING II (3) A studio course which will further explore and develop the techniques of intaglio, relief, stencil and/or planographic printmaking. The emphasis will be on utilizing the various techniques introduced in Printmaking I and developing a deeper understanding of the visual and technical aspects of an original print. The use of color in the media of concentration will be explored. Prerequisite: Printmaking I.

FA 304 POTTERY II (3) A continuation of Pottery I with emphasis on wheel thrown pottery and individual investigation and experimentation with glazes. Prerequisite: Pottery I.

FA 305 SCULPTURE II (3) Continuance of Sculpture I. Prerequisite: Sculpture I.

FA 306 PAINTING IV: TECHNICAL PAINTING (3) This course will explore traditional methods and their applications to contemporary problems. The development of techniques will be examined through a study of egg tempera, old master oil techniques, Impressionist style painting and modern masters. There will be frequent demonstrations and direct assistance to students.

FA 307 ADVANCED PAINTING I (3) The student is assigned a particular studio area where he/she will be encouraged to develop, through paintings, his/her own interests and individuality. Discontinuance of regular class room instruction, replaced by periodic consultation and discussion. Prerequisite: Painting IV.

FA 308 ADVANCED PAINTING II: FIGURE AND/OR LANDSCAPE PAINTING (3) This course will be divided into two segments: the human figure and the landscape. Life painting assignments will involve various painting approaches, from monochromatic rendering to the use of the figure as a starting point for a more abstract color-space problem. Painting the landscape will involve field trips, painting from drawings, photographs, and the imagination. Media: oil, acrylic and/or watercolor. Prerequisite: FA 202.

FA 309 ADVANCED DRAWING (3) A course in Advanced Drawing will develop the student's own direction and personal expression. Prerequisite: Drawing II.

FA 310 WORKSHOP IN CRAFTS (3) An introduction to a number of crafts and an opportunity to pursue several crafts as chosen. Woodwork, weaving, ceramics, enameling, puppetry, casting, rug designing, fibers and fabrics, basic printing techniques and leatherwork are offered.

FA 312 INTAGLIO PRINTING (3) This course will explore intaglio techniques not employed in Printmaking I. Engraving, mezzotint, drypoint, photo-intaglio and ink viscosity printing will be some of the areas introduced. Involvement with the intaglio media as a mode of expression will be emphasized. Prerequisite: Printmaking I.

FA 313 LITHOGRAPHY (3) A studio course dealing with the planographic techniques of lithography. The various drawing materials used in this medium will include crayon, tusche, asphaltum, and the transfer method. The technical aspects of preparing, etching and printing the stone will be stressed. The visual and artistic understanding of an original print will also be emphasized. Color lithography will be introduced with various methods of registration. Prerequisite: Printmaking I.

FA 314 RELIEF PRINTING (3) A studio course offering various methods of relief printing. The techniques covered in this area will be line-cuts, woodcuts, cardboardcuts, wood engravings and gesso-cuts. The use of more than one color in a relief print will also be explored. The visual and artistic understanding of the above techniques will be emphasized. Prerequisite: Printmaking I.

FA 315 SERIGRAPHY (3) A studio course dealing with the stencil printing process of serigraphy (silk-screen). This course will cover the basic processes in serigraphy which are paper, tusche, glue, cut or profilm, and the photographic techniques. The visual and artistic understanding of a serigraph print will also be emphasized. Prerequisite: Printing I.

FA 330 ANATOMY FOR THE ARTIST (3) A study of human anatomy including the bone structure, muscles, and proportions. The course will utilize anatomy charts, the skeleton, and live models. Students of dance and drama, as well as students of the visual arts, will benefit from an in-depth study of human anatomy and from an understanding of the human body in movement.

FA 348 PORTFOLIO PREPARATION (3) A culmination of the Graphic Design Concentration or the Fine Art Studio sequence. Emphasis on portfolio content and arrangement for job placement interviews or graduate school application. Assignment of supplementary art projects to augment portfolio presentation and/or slide reproduction of work. Resume design, preparation, and content also included. Prerequisites: permission of instructor; for senior art majors only.

GRAPHIC DESIGN COURSES

FA 108 COMPUTER GRAPHICS FOR ART APPLICATIONS I (3) This introductory computer graphics course allows the student to explore the creative, visual and artistic possibilities which the micro-computer offers. Classwork and lab time on the computer is supplemented with slide lectures on computer generated are and its potential. Lectures assume no previous knowledge of computers or programming. Students create a variety of projects in form of slides, animations, and printouts.

FA 206 LETTERING AND LAYOUT (3) Basic type and letter forms will be studied with an emphasis on mechanical lettering. Calligraphy as an expressive use of

lettering will also be utilized. Basic layout techniques will be discussed and explored in conjunction with commercial advertising, posters, product labels, and brochures.

FA 210 TYPOGRAPHY (3) The communicative and aesthetic aspects of type faces will be explored. Procedures in type specifications for catalogs, books and commercial advertisements will be introduced. Assignments will involve using type as the primary element in design. Prerequisite: Lettering And Layout.

FA 211 VISUAL COMMUNICATION AND DESIGN (3) A survey of media used in visual communication and commercial advertising. Technical procedures of printing and/or production will be outlined and basic design fundamentals, typography and graphic production procedures will be introduced. Prerequisites: sophomore standing.

FA 212 COMPUTER GRAPHICS FOR ART APPLICATIONS II (3) Computer Graphics for Art Applications II is designed to be a sequel to the first semester for computer graphics. The format is slide lectures, classroom and studio lab time. As in the first semester of computer graphics, students have a hands-on experience with various micro-computers. Students also create images via the computer with programming and graphics software utilization in 2-D and 3-D designing.

FA 328 GRAPHIC DESIGN I (3) A studio course with emphasis on the integration of design fundamentals into graphic communicative forms. Students will be involved in problem-solving experiences in various advertising media. Specific concentration will be on newspaper and magazine advertisements, brochures, television art forms and package designs. Prerequisite: Design Fundamentals, Lettering and Layout.

FA 329 ILLUSTRATION I (3) A studio course to introduce the many facets in the illustration field. Students will be involved in various problem solving experiences with concentration on the materials, techniques, and reproduction processes used in magazine, book, technical, and film illustration. The techniques of air brush and photography as illustrative media may also be explored. Prerequisite: Design Fundamentals.

FA 340 COMMERCIAL ART PRACTICUM (6) An eight week, full time, on-the-job work experience program in which the student is placed in an advertising agency or commercial art work setting. The student will be supervised by the agency director and the art practicum advisor. This practicum experience sequence will prepare the student for work procedures in the commercial art field and assist in later job placement.

FA 343 ILLUSTRATION II (3) A continuation of the study of techniques and application of illustration in the fields of advertising, book publication and technical journals. Portfolio quality work will be stressed. Prerequisite: Illustration I.

FA 344 GRAPHIC DESIGN II (3) A continuation of the study of graphic communicative forms used in the advertising media. Emphasis will be on analyzing assigned problems and choosing appropriate media for final visual presentation. Prerequisite: Graphic Design I.

ART EDUCATION COURSES

FA 322 ART EDUCATION CURRICULUM (3) Curriculum development at either the elementary or secondary level. It includes visits to area schools for the purpose of observations and art curriculum study.

FA 323 INTRODUCTION TO ART EDUCATION (3) A pre-practicum experience providing students with a working knowledge of the various levels within the public school structure. This experience will be translated into a choice of certification level.

FA 324 ART METHODS AND MATERIALS (3) The methods, principles and materials for Art Education. Areas included are stages of development, goals of Art Education, personal goals for teaching art, lesson planning and organization and newer media in Art Education. It includes a related pre-practicum experience.

FA 325 ART IN THE ELEMENTARY SCHOOL K-6 (3) Studio experience with materials related to the art experiences of children. The emphasis will be on giving the prospective teacher a better foundation in understanding and working with art materials and concepts.

FA 326 PRACTICUM: SEMINAR (ART EDUCATION) (3) The purpose of this course is to have students participating in the practicum (art teaching) share related student teaching problems and successes. Inter-relations between student teachers and pupils will be a prime focus.

FA 331 PRACTICUM (ART TEACHING K-9) (6-12) Teaching experience within a setting appropriate for the art certification level chosen by the student.

FA 351 PRACTICUM (ART TEACHING 5-12) (6-12) Teaching experience within a setting appropriate for the art certification level chosen by the student.

FA 399 INDEPENDENT STUDY (6-12) In History, Studio and Education courses. (By arrangement only.)

BIOLOGY

The Biology Department offers opportunities for study in the areas of environmental, molecular, and organismal biology. Applying the scientific method, students learn to collect and analyze data while working closely with a dedicated faculty. The biology major prepares students for careers and opportunities in a variety of environmental fields, teaching, medical technology, as well as for advanced study in fields such as medicine.

Facilities available to students include eleven well-equipped laboratories, greenhouse, animal room, aquarium room, teaching collections of plants and animals, and an electron microscope. The forest setting of the college offers ample opportunities for field study. Independent studies and internship programs, on and off campus, are available for biology majors wishing to pursue areas of special interest.

Courses in the common core are Biology of Organisms, Inheritance and Development, and Environmental Biology. The Human Anatomy and Physiology course meets the requirements of the Movement Science, Sports, and Leisure Studies Major.

REQUIREMENTS FOR THE BIOLOGY MAJOR

All Biology Majors must take one introductory level biology course from among the following:

BI 102 Environmental Biology (4)
BI 104 Biology of Organisms (4)
BI 106 Inheritance and Development (4)

as well as

BI 228 Biological Concepts (4)

and

Two 1-credit departmental seminars (2). These are usually taken in the junior or senior year from among the several offered each semester. These courses are numbered BI 280 - BI 289.

In addition, the Biology Major is required to take a minimum of 30 additional credits within the Department, including at least 2 courses at the 300 level. Course selections must satisfy one of the following three distribution sequences:

Environmental Option
4 courses Group A
1 course Group B
2 courses Group C

Cellular/Molecular Option *
1 course Group A
3 courses Group B
3 courses Group C

Comprehensive Option
2 courses Group A
2 courses Group B
3 courses Group C

* Recommended for students interested in pre-med or medical technology.

Group A - Environmental

BI 201	General Ecology	(3)
BI 202	Conservation	(3)
BI 208	Marine Biology	(4)
BI 215	Economic Botany	(4)
BI 219	Aquatic Biology	(4)
BI 233	Environmental Legislation	(3)
BI 250	Populations, Food, and Nutrition	(3)
BI 304	Environmental Microbiology	(4)
BI 305	Field Ecology	(4)
BI 316	Urban Ecology	(4)
BI 389	Topics in Environmental Studies	(1-3)

Group B - Cellular/Molecular

BI 203	Genetics I	(4)
BI 205	Cell Biology	(4)
BI 210	Histology I	(4)
PS 213	Biochemistry	(3)
BI 223	Microbiology	(4)
BI 303	Medical Microbiology	(4)
BI 313	Immunology	(4)
BI 318	Histology II	(4)
BI 322	Electron Microscopy	(4)
BI 326	Genetics II	(3)

Group C - Organismal

BI 207	Embryology	(4)
BI 211	Botany of the Higher Plants	(4)
BI 216	Flora of Massachusetts	(3)
BI 217	Invertebrate Zoology	(4)
BI 221	Vertebrate Physiology	(4)
BI 227	Comparative Vertebrate Anatomy	(4)
BI 230	Evolution	(3)
BI 231	Plant Physiology	(4)
BI 235	Ornithology	(4)
BI 301	Plant Growth and Development	(4)
BI 312	Mammalogy	(4)

The Biology Major is also required to take courses in related departments, as follows:

PS 109	General Chemistry I	(4)
PS 111	General Chemistry II	(4)
PS 201	Organic Chemistry I	(4)
PS 203	Organic Chemistry II	(4)

as well as one of the following:

MA 105	Calculus I	(3)
MA 108	Elementary Statistics	(3)
A Computer Programming Course		(3-4)

Physics, though not required, is recommended for students considering advanced study.

Note that the math and two semesters of chemistry may be used to satisfy the College's math and science core requirements, thereby reducing the total number of credits needed to complete the biology major.

CERTIFICATION FOR TEACHER OF BIOLOGY (9-12)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach Biology at the High School level must complete the following:

All courses for the Biology major with the Comprehensive Option using the course distribution pattern below

The 18-credit secondary education sequence, described in the Education Department listings

BI 290 Teaching Secondary School Biology

COURSE DISTRIBUTION COMPREHENSIVE OPTION FOR CERTIFICATION

Group A - Environmental

BI 201	General Ecology	(3)

And one of the following:

BI 202	Conservation	(3)
BI 208	Marine Biology	(4)
BI 215	Economic Botany	(4)
BI 219	Aquatic Biology	(4)
BI 250	Populations, Food, and Nutrition	(3)

Group B - Cellular/Molecular

BI 203	Genetics I	(4)

And one of the following:

BI 205	Cell Biology	(4)
BI 223	Microbiology	(4)

Group C - Organismal

One of the following:

BI 211	Botany of the Higher Plants	(4)
BI 216	Flora of Massachusetts	(3)

One of the following:

BI 217	Invertebrate Zoology	(4)
BI 235	Ornithology	(4)
BI 312	Mammalogy	(4)

And one of the following:

BI 207	Embryology	(4)
BI 221	Vertebrate Physiology	(4)
BI 230	Evolution	(3)
BI 301	Plant Growth and Development	(4)

BIOLOGY MINOR

The student minoring in biology is required to take 18 credits in Biology, no more than eight of which can be introductory courses (100 level).

ADVISING

Biology faculty welcome the opportunity to talk to incoming students about the program. Students who decide to major in biology will be assigned a faculty advisor in the Department who can provide guidance concerning the major and related work in mathematics, chemistry, physics, secondary education and other areas of interest. Consultation at an early date will provide the possibility of taking courses which can lead toward a variety of career options.

TRANSFER STUDENTS

Any student transferring into Westfield State College must successfully complete a minimum of 20 biology credits at Westfield State College. These credits must be biology credits. Course work required in the major, but outside the department such as chemistry, will not meet this requirement. Additionally, the biology distribution must also be met.

COURSES

Waiver of prerequisites: A student with a strong background may consult with the instructor to request the waiver of any prerequisite for a specific course.

BI 100 NATURAL HISTORY OF MASSACHUSETTS (2) A discussion of the natural resources of Massachusetts. Topic will include wildlife management, endangered species, Massachusetts' habitats, and representative flora and fauna.

BI 101 SCIENCE FOR THE ELEMENTARY SCHOOL (3) Designed to prepare future teachers to utilize the student-oriented inquiry approach in teaching elementary school science. Emphasis will be placed upon hands-on experiences for accomplishing this through biological, physical, and earth science activities. Course is taught by a professor from the Biology Department and one from the Physical Science Department.

BI 102 ENVIRONMENTAL BIOLOGY (4) An introduction to selected ecological principles, and man's interrelations with, and effects upon, the environment.

BI 104 BIOLOGY OF ORGANISMS (4) Consideration of the means by which representative plants and animals, including the human, solve problems associated with the maintenance of the individual. Problems include gathering and digestion of food, gas exchange, circulation and regulation of the internal environment, reproduction, hormonal and nervous control, movement, and behavior.

BI 106 INHERITANCE AND DEVELOPMENT (4) Introduction to the study of energy transformations, cellular reproduction, inheritance and the gene, and the development of plants and animals.

BI 201 GENERAL ECOLOGY (3) Denotes and studies physical and biological interactions and principles involved in functioning ecosystems. Includes measurement of local environmental factors and interpretation of these data. The roles of energy, raw materials, plants and animals in successional community development are stressed. Involves field experiences.

BI 202 CONSERVATION (3) Emphasizes the scientific bases for solving current environmental management problems of energy, soil, land, solid wastes, water, air, and wildlife and integrates with sociological, historical, economic, geographic, and political aspects. Each student gathers information and suggests solutions to a local environmental problem of his choice.

BI 203 GENETICS I (4) Emphasizes the Mendelian mechanisms of inheritance, sex inheritance, human heredity, chromosome mapping, and population genetics. Also included are methods for determining genetic probabilities and the analysis of statistical data. Discussions correlate current genetic research with the above, particularly as it relates to prenatal diagnosis of genetic abnormalities and the concept of eugenics in controlling gene frequencies. Prerequisite: Two semesters of introductory biology or one semester and permission of instructor.

BI 205 CELL BIOLOGY (4) A study of the structure, function, and life history of cells and their components. Consideration of relationships among cell organelles and between cells and their environments. Prerequisite: Two semesters of introductory biology or one semester and permission of instructor.

BI 207 EMBRYOLOGY (4) A study of vertebrate embryo development, including developmental patterns and the emergence of form and function as an expression of genetic endowment. Special attention is paid to the avian and mammalian morphogenesis. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 208 MARINE BIOLOGY (4) An in-depth investigation of the various marine ecosystems such as sand, mud, and rock intertidal areas, salt marshes, estuaries, coral reefs, and mangrove forests; also the neritic, pelagic, and enthic regions of the open ocean. Includes the numerous interactions between biotic and abiotic factors present. Adaptations of life forms for survival in these environments will be discussed. Also includes laboratory exercises, including establishing, maintaining and analyzing a salt water aquarium, plus field trips to the coast. Prerequisite: one semester of BI 102, BI 104, or BI 106.

BI 210 HISTOLOGY I (4) Study of the microscopic structure and function of animal tissues with emphasis upon the mammal. An introduction to the basic principles of microtechnique. Prerequisite: Two semesters of introductory biology or one semester and permission of instructor.

BI 211 BOTANY OF THE HIGHER PLANTS (4) Describes the course of the evolution of the vascular plants as deduced from their comparative morphology. Emphasis is placed on the adaptive mechanisms which have allowed these plants to spread and diversify on land, and their subsequent importance to man. Laboratory emphasis on plant anatomy, propagation, nutrient and tissue culture, and plant classification. Prerequisite: Two semesters of introductory biology or one semester and permission of instructor.

BI 215 PLANTS AND HUMAN CULTURE (4) Plants in relation to human welfare. Students will examine how, since the dawn of civilization, man has associated himself with plants as sources of food, fiber, forage, as well as medicines. Special emphasis will be placed on the intrinsic overlap between ecology and economy in today's world. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 216 FLORA OF MASSACHUSETTS (3) An introduction to the vascular flora of Massachusetts. Topics will included a taxonomic survey of major families, the use of keys to identify specimens, and the dissection of preserved floral material. The early spring flora will be observed in the field and herbarium specimens will be extensively utilized throughout the course.

BI 217 INVERTEBRATE ZOOLOGY (4) Study of representative groups of invertebrates, including the phylogenetic relationships and the morphology, physiology and natural histories of selected individual animals. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 219 AQUATIC BIOLOGY (4) Survey covering the biological, chemical, and physical considerations of inland waters with emphasis on the environmental relationships, identification, and natural history of indigenous aquatic organisms. Considerable work is done in the field. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 221 VERTEBRATE PHYSIOLOGY (4) Recognition and interpretation of the integration of function in the organ systems of the vertebrate animal in relation to environmental influences. Prerequisite: Two semesters of BI 102, BI 104, or BI 106; two semesters of General Chemistry.

BI 223 MICROBIOLOGY (4) An introductory study of the microorganisms with emphasis on Bacteriology. Consideration of clinical and environmental aspects, principles of structure, metabolism, and genetics of procaryotes. Laboratory includes basic techniques for study, enumerations and identification of bacteria. Prerequisite: Two semesters of BI 102, BI 104, or BI 106 or one semester and permission of instructor.

BI 228 BIOLOGICAL CONCEPTS (4) The study of some of the basic concepts underlying modern biology. Topics include cellular and molecular biology, organismic diversity and systematics, as well as evolution and ecology. Lecture and laboratory will include methods of inquiry and instrumentation. Prerequisites: BI 102, BI 104, or BI 106.

BI 230 EVOLUTION (3) A discussion of theories of evolution, evidence for evolution, genetic variability and changes in populations, and evolutionary Patterns of the past. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 233 ENVIRONMENTAL LEGISLATION (3) A detailed examination of the need for, and biological basis for, the standards established by existing, or proposed, federal and state legislation. The lectures, which will deal with topics such as the National Environment Policy Act and the Water Pollution Control Act, will be supplemented by analysis and discussion of environmental impact statements and court decisions dealing with each of the topics covered. Prerequisite: One semester of introductory biology and at least one of the following: BI 201 or BI 202 or permission of instructor.

BI 235 ORNITHOLOGY (4) An intermediate course focusing on the evolution, ecology and distribution, life history and economic importance of the class Aves. Laboratories will emphasize field experience for the identification of local and migratory species, and the study of the anatomy and physiology of birds. Grades will be based upon lectures and laboratory exams. Prerequisite: One semester of biology or permission of instructor.

BI 237 HUMAN ANATOMY AND PHYSIOLOGY I (3) Utilizes a general approach to the human body with emphasis on structure and function to show ways in which various organ systems interact. The integumentary, skeletal, muscular, and nervous systems and sense organs are studied. (Note course is not for credit toward the biology major). Prerequisite: BI106 preferred, but BI 104 is acceptable).

BI 239 HUMAN ANATOMY AND PHYSIOLOGY II (3) Utilizes a general approach to the human body with emphasis on structure and function to show ways in which the various organ systems interact. The respiratory, circulatory, digestive, endocrine, and urinary systems as well as temperature regulation and fluid balance are studied. Course is not for credit toward the biology major. Prerequisite: BI 237.

BI 245 HORTICULTURE (4) Instructs students in the science and art of growing, nurturing, and appreciating flowers, vegetables, ornamentals including herbs/spices. An emphasis will be given to Ethnobiology -- Plants in relation to Human Culture. Prerequisite: One college level introductory biology course or permission of the instructor.

BI 250 POPULATION, FOOD, AND NUTRITION (3) A comprehensive examination of the interconnection between human ecology and the uniquely human predicaments such as population crisis, world hunger, and poverty.

BI 260 TOPICS IN HISTOLOGY I (2) A study of the structure, function and interrelationships of mammalian tissues.

BI 280 - 289 BIOLOGY SEMINAR (1) Topics will vary depending on availability of staff and student interest. Primarily for juniors and seniors. Prerequisite: Permission of instructor.

BI 290 TEACHING SECONDARY SCHOOL BIOLOGY (3) Designed to introduce the necessary skills and techniques for teaching biology in grades 9 - 12. Emphasis will be placed on the use of inquiry and those curricula developed with this approach. Topics discussed will include conditions for good biology teaching, biological goals and objectives, motivational and evaluative techniques, questioning strategies, safety in the biology laboratory, use of live organisms, choosing biology computer software, professional organizations for biology teachers and their publications. [NOTE not accepted as credit towards the biology major.] Prerequisites: completion of 30 hours of the biology courses needed for certification plus ED 356.

BI 303 MEDICAL MICROBIOLOGY (4) A study of medically important microorganisms, including bacteria, fungi, viruses, and protozoa. The course attempts to correlate the mechanisms of pathogenicity and virulence with disease. Prerequisite: BI 223

BI 304 ENVIRONMENTAL MICROBIOLOGY (4) A study of the interrelationship of microorganisms with the environment. Consideration of the role of microorganisms in pollution and pollution abatement, industrial processes, agriculture, and ecology. Prerequisite: BI 223 or permission of instructor.

BI 305 FIELD ECOLOGY (4) An advanced course in ecology with strong emphasis on field studies and related laboratory work. Topics will include techniques in observation, collection, and identification of organisms, and the physical and biological description of natural area. Field trips required. Prerequisite: One semester of BI 102, BI 104, or BI 106.

BI 312 MAMMALOGY (4) The identification, classification, evolution, ecology, and physiology of mammals with emphasis on New England forms. Laboratory work will include an introduction to the common techniques used in mammalogy, experimentation, and identification of the skins and skulls of the local fauna. Prerequisite: Two zoology courses at the intermediate (200) level, one of which must be BI 227, BI 221, or BI 230.

BI 313 IMMUNOLOGY (4) Explores the nature of antigens and the immunological response. The immune response will be considered in relation to infectious disease, transplantations, allergies, and cancer. The laboratory includes basic serological techniques for separation of serum proteins. Prerequisite: 12 hours of intermediate-level Biology.

BI 316 URBAN ECOLOGY (4) An examination of the interactions of humans and their structures (buildings, roads, etc.) and activities with the natural environment in an urban setting. Lecture topics will include urban climates, air pollution, and water supply and disposal. Laboratories will emphasize field experience. Prerequisite: One semester of BI 102, BI 104, BI 106, or BI 201.

BI 318 HISTOLOGY II (4) Study of the microscopic structure and function of organs with emphasis upon the vertebrates. Laboratory experience will include histological, histochemical, and other appropriate techniques. Reading and discussion of selected papers from scientific journals. Prerequisite: BI 210, two semesters of General Chemistry.

BI 322 ELECTRON MICROSCOPY (4) Consideration of research frontiers in biological fine structure will include practice in the basic techniques of the transmission electron microscope and will focus on analysis of the capabilities and limitations of the instrument. Prerequisite: BI 205 or BI 210.

BI 326 GENETICS II (3) Includes the chemistry of DNA, RNA, and amino acids, regulation of protein and antibody synthesis, the genetic code, the concept of template surfaces, the operon theory and embryology at the molecular level. Builds upon and expands the understanding of Mendelian genetics and emphasizes bacterial and viral genetic research. Prerequisite: BI 203.

BI 388 BIOLOGY INTERNSHIP (1-12) A vocational experience in the area of the student's biological interest. Course is designed to provide a hands-on contact involving a variety of responsibilities and skills related to the student's specific concentration. Prerequisite: departmental permission.

BI 389 TOPICS IN ENVIRONMENTAL STUDIES (1-3) A field-oriented investigation of one or more ecological communities not found in Massachusetts. The identification and ecology of the plants and animals of the community will be emphasized and the course will include lectures and/or readings in addition to an extended field trip within the community.

BI 399 INDEPENDENT STUDIES (1-3 credits per semester) Directed study in biology with the student conducting a library, field, or laboratory research project under supervision of an instructor. A total of six credits may be applied toward the undergraduate degree. Prerequisite: Permission of instructor.

COMPUTER AND INFORMATION SCIENCE

The Department of Computer and Information Science (DCIS) supports two distinctly different majors - Computer Science and Computer Information Systems; the department also offers a minor in Computer and Information Science.

The Computer Science (CS) major is the more technical of the two majors, emphasizing the design of system software and scientific or technical application software. The program can best be described as a mixture of mathematically-based theoretical study combined with application-oriented work in the major areas of the discipline. Generally, graduates of this program of study are recruited for positions as systems programmers, with responsibilities in the areas of compiler, operating system or utility program design, or as scientific or technical applications programmers.

The Computer Information Systems (CIS) major has as its focus the processing of data for business or governmental use. File processing and data base management are central to CIS activity, which typically includes replication of clerical function, generation of management reports, and provision of decision support information. Graduates of this program are typically recruited as business applications programmers in a mainframe environment, or as end-user computing support personnel in a microcomputer environment.

The CS program of study is based on the Association for Computing Machinery's latest curriculum recommendations for computer science, and the CIS program of study is based on the Data Processing Management Association's latest curriculum recommendations for computer information systems. Both the CS and CIS programs of study have undergone major curricular revision recently, and are completely up-to-date with respect to course offerings and content.

The computer hardware and software available to CS and CIS majors at Westfield State College is extraordinary for an institution of its size. Mainframe, minicomputer, personal computing and workstation environments, including equipment from DEC, CDC, Wang, AT&T, and various microcomputer vendors are available to students. Languages such as APL, BASIC, C, COBOL, FORTRAN, LISP, Pascal, PL/1, PROLOG, and RPG; assembly languages including BAL, Intel, VAX, and Wang; and operating systems such as DOS, NOS/VE, UNIX, and VMS are all supported. INGRES, dBASE, Lotus 1-2-3, WordPerfect, PROCOMM, and SPSS represent only a sample of the numerous major application packages available. Westfield State College is a part of the Massachusetts Regents Computer Network, which provides an extensive collection of major packages and databases as well as access to wide-area networks such as BITNET. All major equipment on campus is connected through a campus-wide network; thus most of the computing resources are available not only from the central computing labs, but are also remotely accessible via modem.

REQUIREMENTS FOR THE COMPUTER SCIENCE MAJOR

The CS program of study requires 49 credits in the major, to include 28 credits of direct CS study, and 21 credits in the supporting areas of mathematics and physical science. The requirements are as follow:

Direct CS Study:

CS 102	Computer Science Principles	(3)
CS 120	Computer Science/Program Design	(4)
CS 206	Assembly Language Programming	(3)
CS 302	Computer Science Seminar	(1)
CS 304	C/UNIX Systems Programming	(4)
CS 320	Data Structures/Algorithm Analysis	(4)
CS 330	Computer Architecture	(3)
CS 339	Operating Systems	(3)
CS 3xx	Upper-level CS Elective	(3)

Physical Science Support Area Study:

PS 137	Introduction to Digital Electronics	(3)

Mathematics Support Area Study:

MA 105	Calculus I	(3)
MA 106	Calculus II	(3)
MA 118	Linear Algebra	(3)
MA 220	Discrete Structures	(3)

plus two courses selected from the following seven:

MA 201	Calculus III	(3)
MA 311	Theory of Numbers	(3)
MA 333	Applied Statistics and Experimental Design	(3)
MA 334	Operations Research	(3)
MA 335	Introduction to Numerical Methods	(3)
MA 340	Mathematical Statistics I	(3)
MA 341	Mathematical Statistics II	(3)

REQUIREMENTS FOR THE COMPUTER INFORMATION SYSTEMS MAJOR

The CIS program of study requires 63 credits in the major, to include 27 credits of direct CIS study, 24 credits in business background courses, and 12 credits in supporting liberal arts course work. The requirements are as follows:

Direct CIS Study:

CS 125	Introduction to Computer Information Systems	(3)
CS 210	Systems Development for Microcomputers	(3)
CS 205	Introduction to COBOL	(3)
CS 308	Advanced COBOL/File Processing	(3)
CS 310	Database Management	(3)
CS 346	Systems Analysis and Design	(3)
CS 353	Applied Development Project	(3)

plus two courses selected from the following nine:

CS 120	Computer Science/Program Design	(4)
CS 206	Assembly Language Programming	(3)
CS 211	RPG Programming	(3)
CS 290	Computer Security	(3)
CS 304	C/UNIX Systems Programming	(4)
CS 312	End-User Computing: An Overview	(3)
CS 320	Data Structures/Algorithm Analysis	(4)
CS 330	Computer Architecture	(3)
CS 347	Telecommunications	(3)

Business Background Study:

MG 104	Principles of Accounting I	(3)
MG 105	Principles of Accounting II	(3)
MG 207	Financial Management	(3)
MG 220	Production/Operations Management	(3)
MG 221	Introduction to Business Management	(3)
MG 231	Marketing Management	(3)
MG 250	Quantitative Approaches for Business Decisions	(3)
MG 308	Organizational Development and Behavior	(3)

Supporting Liberal Arts Study:

EC 101	Principles of Macroeconomics	(3)
EC 102	Principles of Microeconomics	(3)
MA 108	Elementary Statistics	(3)
EN 392	Business and Technical Writing	(3)

COMPUTER AND INFORMATION SCIENCE MINOR

The minor in Computer and Information Science is available to students who are not majoring in Computer Science or Computer Information Systems. The dramatically increasing pervasiveness of computers in society makes this an attractive adjunct for students in numerous disciplines. It requires that a student complete 18 credit hours of CS-labeled course work. The minor is unstructured in that any CS-labeled course may be applicable to the program of study; however, a student wishing to receive a Computer and Information Science minor must formally declare such intent prior to, or no later than the completion of 12 credit hours of CS-labeled course work that will be applied toward the minor program of study. This is so that a DCIS advisor may be assigned to the student and the remainder of the program may be planned and approved in conjunction with the advisor.

TRANSFER STUDENT POLICY

Any transfer student shall be required to take at least 12 credit hours of Westfield State College CS-labelled coursework, as well as meet any other programmatic requirements that may be in effect at the time and/or applicable to the student, in order to receive a Westfield State College degree in Computer Science or Computer Information Systems.

COURSES

CS 101 COMPUTERS IN SOCIETY (3) Offers an elementary conceptual introduction to the nature and function of computers, but the main emphasis of the course will be on the impact of the use of computers in such areas as national security, societal services, automation, transportation, communication, education, personal privacy, employment, and biological sciences.

CS 102 COMPUTER SCIENCE PRINCIPLES (3) Provides an overview of computer science, to include computer systems, software design, architecture, data and file structures, and artificial intelligence. The intellectual, social, legal and ethical issues involved in the use of computers in modern society are also considered. A hands-on programming component, using a current high-level programming language, will be included in the course. Prerequisites: High school mathematics through trigonometry or MA 104.

CS 117 INTRODUCTION TO COMPUTER PROGRAMMING (BASIC) (3) An introduction to basic concepts and techniques of computer programming for the student not majoring in computer science. Topics to be studied include programming in BASIC, the solution of a variety of problems with the computer, and applications of computer programming and modeling to non-mathematical fields.

CS 118 APPLICATIONS PROGRAMMING (FORTRAN) (3) An introduction to FORTRAN designed for students not majoring in computer science. Applications will be drawn from a variety of subjects. Some standard library programs will be considered. Several programming projects will be assigned.

CS 120 COMPUTER SCIENCE/PROGRAM DESIGN (4) A theoretical introduction to computer science and program design for majors. A current high level programming language is covered in its entirety, to include sets, records, pointers, and external files. Emphasis is placed on structured programming techniques and common algorithms.Fundamental data structures are introduced. Extensive programming is required of the students.

CS 124 THE PERSONAL COMPUTER (3) An introduction to microcomputers from the user's viewpoint. A survey of typical microcomputer hardware, to include capabilities, configurations and costs, familiarity with typical operating systems, and an overview of typical personal productivity software packages, including, but not limited to, word processing, spreadsheet and data base systems. Students will have an opportunity to apply the microcomputer to projects in their own disciplines.

CS 125 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS (3) This course provides an introduction to computer systems and data processing concepts, with special emphasis on the applications of computers in business organizations. Included are an overview of information systems concepts, a survey of computer hardware, software, and programming languages; an introduction to computer system configurations to include operating systems and data communications; an introduction to systems analysis and design, and a comparison of computer based data processing, management information, and decision support systems. A substantial portion of the course will be a microcomputer-based, hands-on component that will have as its focus spreadsheet applications.

CS 200 PROGRAMMING LANGUAGE MODULE (1) Several one-credit courses have been developed to expose the student to selected software. Past modules have included LISP, SNOBOL4, GPSS, APL, and PL/1. Offerings are based on current interest. Several programming assignments are associated with each module. Prerequisite: Knowledge of a high-level programming language.

CS 205 INTRODUCTION TO COBOL (3) Provides an introduction to the COBOL programming language and structured programming principles. Generally accepted conventions for data manipulation, arithmetic operations, report generation, single-dimension table processing, data validation, and elementary file processing are covered. Extensive programming experience in a current COBOL environment, utilizing common business data processing applications, is provided. Prerequisite: CS 125

CS 206 ASSEMBLY LANGUAGE PROGRAMMING (3) An in-depth study of the internal instructions, organization, and operations of the modern digital computer. The host computer will vary from semester to semester as will the assembly language for this course. A second computer system may also be explored at the assembly language level. Prerequisite: Knowledge of a high level programming language.

CS 210 SYSTEMS DEVELOPMENT FOR MICROCOMPUTERS (3) A study of current development strategies and techniques for microcomputer-based information systems. A dBASE-standard environment, to include application development, relational database design and implementation, screen and report procedures, and code generation will serve as the primary application development tool, although other platforms will be discussed as appropriate. A study of standard microcomputer operating system commands and techniques, along with selected utilities supportive of microcomputer application development, will also be undertaken. An IBM-compatible context will be utilized. Prerequisites: CS 124, CS 125, or MG 107 and knowledge of a high level programming language.

CS 211 RPG PROGRAMMING (3) An introduction to programming in a current version of the RPG language. Emphasis is on the application of RPG to real-world problems. Most of the features available in RPG will be covered during the course, including the fixed logic cycle of RPG. The complete programming process from problem identification through program design, coding, testing, implementation, and documentation will be experienced. A comparison between RPG and other higher-level languages will be made, and the role of RPG in the library of languages will be emphasized.

CS 280 SPECIAL TOPICS IN COMPUTER AND INFORMATION SCIENCE (3) A study of a topic of special interest to CS or CIS majors that is not covered in a course currently in the Bulletin. Topics generally involve new, current or evolving issues, and offerings depend on student and instructor interests. May be repeated for credit if topic differs. Prerequisite: Permission of the instructor.

CS 290 COMPUTER SECURITY (3) The security of computer systems will be examined from three perspectives: risk identification, risk evaluation, and risk control. Risk identification will be explored in terms of the "onion skin" approach, methods of risk identification, and computer related fraud. Risk evaluation will involve an exploration of probability and impact and approaches to risk evaluation; risk control will focus on such issues as strategy, cost-effectiveness, and contingency planning. Prerequisite: CJ 207, MG 104 or knowledge of a high level programming language.

CS 301 COMPILER DESIGN (3) An introduction to the principles and techniques of compiler writing. Among the topics discussed are lexical and syntactic analysis, basic techniques of parsing (top-down and bottom-up), syntax-directed translation, run-time environments, intermediate code generation, code optimization and object code generation. Compiler writing tools such as LEX and YACC or SCANGEN and LLGEN are utilized. Prerequisites: CS 304 and CS 320

CS 302 COMPUTER SCIENCE SEMINAR (1) Focuses on current topics in computer science and allied fields. By means of individual presentations, group, or panel discussions, a variety of aspects and issues of this discipline will be explored. This course can be repeated for credit (up to a maximum of four credits). Prerequisite: Junior or Senior standing and permission of instructor for non-CS majors.

CS 304 C/UNIX SYSTEMS PROGRAMMING (4) The C systems programming language and UNIX Utilities such as AWK, GREP, LEX and YACC are taught in a UNIX environment. Extensive programming, to include both C and UNIX programming assignments, and additionally a small systems programming project using both UNIX utilities and the C language, will be required of students. Prerequisite: CS 120. UNIX is a trademark of AT&T.

CS 307 ORGANIZATION OF PROGRAMMING LANGUAGES (3) A study of computer programming languages from the following points of view: specification, programming paradigms, implementation, and actual performance. Some laboratory exercises for the various languages will be given as resources permit. The languages will be chosen by the instructor. Prerequisite: CS 320

CS 308 ADVANCED COBOL/FILE PROCESSING (3) A successor to CS 205 - INTRODUCTION TO COBOL, this course is designed to provide the student with a proficiency in advanced file processing and data structure techniques through COBOL implementation. A major portion of the course is devoted to the theory and practice of file processing as it relates to sequential, relative and indexed

file structures and manipulations. Multi-level table processing, sorting, and subprogramming are also considered. Using a current COBOL environment, students are required to design and implement programming projects of considerable complexity. Prerequisite: CS 205.

CS 310 DATABASE MANAGEMENT (3) An introductory course in database, to include fundamental concepts, design and underlying theory. Data structures supportive of the database environment, along with rationale, objectives, and design and data modeling concepts will be considered. The relational model will be emphasized, to include relational operations, normalization and anomalies, and data definition, manipulation and query techniques. Technical aspects of database administration, such as security, recovery and concurrency will also be considered. Prerequisite: CS 210 or CS 320

CS 312 END-USER COMPUTING: AN OVERVIEW (3) An overview of end-user computing, to include the history and evolution of end-user computing, the identification of various end-user types, and an examination of end-user computing applications, risks and support activities. The organizational context of end-user computing, and particularly the concept and role of the information center, will be considered in the development of strategic planning for end-user computing. Prerequisite: CS346 or permission of the instructor.

CS 320 DATA STRUCTURES/ALGORITHM ANALYSIS (4) A study of fundamental algorithms which act on data structures, along with analysis of such techniques. This course requires extensive programming by the student, and provides the student with a sound theoretical background for applications to database management, operating systems, and compiler construction. Topics covered include stacks, queues, linked lists, tree structures, sorting and searching techniques. Prerequisites: CS 102 and CS 120.

CS 330 COMPUTER ARCHITECTURE (3) Topics include machine instruction sets, addressing schemes, control units (hardwired and microprogrammed), memory organization, storage mechanisms, I/O processing (data paths and interrupts), discussions of state-of-the-art computer architectures. The student will be introduced to advanced computer architectures centering around parallel processing, pipelining, array processors, and multiprocessor systems. Time permitting, additional concepts will be covered including RISC architectures, connection machines, data flow, and VLSI. Prerequisites: CS 206 and PS 137.

CS 339 OPERATING SYSTEMS (3) Topics to be discussed include I/O programming (microprogramming and device handling routines), memory management (including real and virtual memory management), processor management (including interrupt processing), concurrent programming, file systems, and secondary memory management. Students will be required to complete one or more large programming projects. Time permitting, specific O.S. case studies will be done. Prerequisites: CS 304, CS 320 and CS 330.

CS 341 COMPUTER GRAPHICS (3) Topics in computer graphics software and hardware such as microcomputer graphics, graphics software standards, windowing, graphical I/O devices, and low-lever graphics algorithms. As time permits, high-level graphics such as CAD systems, scientific visualization systems, solid modeling, color, shading, and computer vision may be discussed. Prerequisite: CS 120

CS 346 SYSTEMS ANALYSIS AND DESIGN (3) An overview of the Systems Development Life Cycle. In addition, the most popular tools and methodologies for system analysis, documentation, design, and development. Through the use of individual projects and exercises or a semester-long case study, students will do major portions of the analysis and design of an information system of moderate complexity. Students will become familiar with traditional approaches to analysis and design as well as at least one of the popular structured methodologies in current use. Prerequisite: Knowledge of a high level programming language.

CS 347 TELECOMMUNICATIONS (3) A course dealing with an overview of the telecommunications industry concentrating on computer networks and how they operate. Telecommunication hardware (modems, multiplexers, optic fiber, coaxial cable, etc.) is discussed. Local Area Networks, ISDN, and Wide Area Networks are covered. The ISO OSI network model is reviewed and communications protocols including Aloha, Slotted Aloha, Xmodem, BSC, and HDLC are discussed and analyzed. Prerequisites: MA 104 and knowledge of a high level programming language.

CS 350 ARTIFICIAL INTELLIGENCE (3) A survey of artificial intelligence, including AI languages, applications of data structures, interaction with the external environment, and expert systems. Prerequisite: CS 320.

CS 351 INTRODUCTION TO THE THEORY OF COMPUTATION (3) Presentation of topics of current theoretical interest in computer science chosen from among grammars, finite automata, Turing machines, cellular automata and other models of computers; computability theory; and computational complexity. Prerequisites: CS 120 and MA 220.

CS 352 CRYPTOGRAPHY (3) An introductory

course in cryptography (ciphering and deciphering messages). An historical overview of cryptography is provided as well as an examination of modern encryption techniques. The computer is recognized as the ultimate cipher machine, and the course uses a high level language to explore several cryptographic techniques. Prerequisites: CS 206 and CS 120

CS 353 APPLIED DEVELOPMENT PROJECT (3) A practicum in systems development, utilizing real projects or detailed cases. A team approach is used to analyze, design, document, and develop realistic computer-based information system. Students are required to apply concepts, principles, problem-solving strategies, techniques, and tools learned in previous computer science and business courses in developing the system. Prerequisite: CS 346.

CS 380 SPECIAL TOPICS IN COMPUTER AND INFORMATION SCIENCE (3) A study of an advanced topic of special interest to CS or CIS majors that is not covered in a course currently in the Bulletin. Topics generally involve new, current or evolving issues, and offerings depend on student and instructor interests. May be repeated for credit if topic differs. Prerequisite: Permission of the instructor.

CS 396 COMPUTER SCIENCE INTERNSHIP A (3) An on-campus internship experience for computer science and computer information systems majors. This experience will involve 8-10 hours/week. Prerequisite: Permission of the instructor.

CS 397 COMPUTER SCIENCE INTERNSHIP B (3) An internship experience which may be on or off campus depending on availability. Students might participate in a major system design project on-campus or might be interning at a business location in the Greater Springfield Area. Prerequisite: Permission of the instructor.

Note: "Knowledge of a high level programming language" may be satisfied by any of CS 117, CS 118, CS 120, CS 205, or comparable previous programming experience.

CRIMINAL JUSTICE

The goal of the Criminal Justice program is to develop among present and future employees of the criminal justice system an increased awareness of the role of law enforcement, courts, and corrections, and a better understanding of the socio-political and economic forces which influence that system.

The course of study consists of both an extensive overview of the criminal justice system and an intensive examination of each of the major components of the system. The program is designed to serve both those students who may elect to enter the criminal justice profession immediately upon graduation and those students who desire to pursue graduate work. Criminal Justice majors are able to apply for an internship and work in a criminal justice related agency or organization during their senior year.

REQUIREMENTS FOR CRIMINAL JUSTICE MAJORS

The Criminal Justice major consists of 39 credits. All students must take at least 21 Criminal Justice credit-hours at Westfield State College. There are five required courses in the major.

CJ 101 INTRODUCTION TO CRIMINAL JUSTICE	(3)
CJ 201 LAW ENFORCEMENT AND SOCIETY	(3)
CJ 202 INTRODUCTION TO CORRECTIONS	(3)
CJ 205 AMERICAN JUDICIAL SYSTEM	(3)
CJ 331 RESEARCH METHODS	(3)

Each of these courses is three credit-hours. Students choose electives in the major in order to complete the remaining 24 credit-hours.

COURSES

CJ 101 INTRODUCTION TO CRIMINAL JUSTICE (3) A survey of the American Criminal Justice System as a socio-political institution. The police, criminal courts, correctional and rehabilitative endeavors will be analyzed within the framework of empirical research development and perspectives of the social sciences. Required of all Freshmen in the Criminal Justice major.

CJ 201 LAW ENFORCEMENT AND SOCIETY (3) The structure and function of law enforcement agencies in contemporary society will be analyzed in their sociological context. Particular emphasis will be placed on the role of the police within the framework of the Criminal Justice System. Prerequisite: CJ 101 or its equivalent.

CJ 202 INTRODUCTION TO CORRECTIONS (3) An in-depth examination of the American Correctional System. Traditional punitive measures will be analyzed in relation to current reintegration alternatives. Prerequisite: CJ 101 or its equivalent.

CJ 203 CRIMINAL LAW (3) The function of criminal law and its relationship to various criminal offenses, including crimes against persons and crimes against property. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 204 PRINCIPLES OF CRIMINAL INVESTIGATION (3) The science of investigation of crimes, laboratory techniques, interpretation of data, and elements of specific crimes. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 205 AMERICAN JUDICIAL SYSTEM (3) An examination of the development of law and the American legal system. The problems related to the meaning and uses of law; the organizational hierarchy of the courts; and the role of the courts in the criminal justice system. Prerequisite: CJ 101 or its equivalent.

CJ 206 CRIME IN THE CITY (3) An examination of the distribution and crime patterns within an urban area. Particular emphasis will be placed on theoretical and environmental causes of urban crime. Additionally, this course will attempt to focus on urban policies that address the problems of crime in the city. Analysis of victim-precipitated crime, concentric zone theory, and urban migration, will be among the issues considered. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 207 ISSUES IN CONTEMPORARY SECURITY (3) An overview of security systems applicable to contemporary industrial and commercial demands. Losses through physical, technological and personnel hazards are viewed as preventable phenomena if vulnerabilities are recognized and ameliorative measures taken. Counter-measures will be weighed within the framework of loss criticality and cost of effectiveness. Prerequisite: CJ 101 or its equivalent.

CJ 301 JUVENILE PROCEDURE (3) An examination of the underlying philosophy of juvenile justice and procedures used to process a juvenile alleged to be delinquent through the juvenile justice system; will focus on the differences between juvenile procedure and adult criminal procedure by examining recent court decisions and statutory law pertaining to juveniles. Prerequisite: CJ 101, 201, 205, 202 or their equivalent.

CJ 303 PATTERNS OF CRIMINALITY (3) The U.S. Department of Justice Index Crimes will be studied along with other crimes, which will be selected on the basis of their contemporary administrative significance and their effect on the criminal justice system in particular. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 304 PREVENTION AND CONTROL (3) An in-depth examination of the criminal justice system and the efforts it has exerted in an attempt to prevent and control criminal behavior. Course will focus on the traditional methods including probation and parole as well as recent trends in crime control and prevention: the utilization of community based treatment programs and attempts by many criminal justice agencies to avoid the processing of individuals through the system. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 305 PRINCIPLES OF EVIDENCE AND PROOF (3) The study of the different types of evidence, relevance, the hear-say rule and its exceptions, impeachment and cross-examination and privileged communications. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 306 CONTEMPORARY PROBLEMS IN CORRECTIONS (3) An intensive analysis of selected problems in institutional and community corrections. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 307 CONTEMPORARY PROBLEMS IN LAW ENFORCEMENT (3) An intensive analysis of selected problems in American law enforcement and police-community relations. A major research paper is required. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 308 RIGHTS OF THE CONVICTED (3) An examination of the legal rights of the individual who has been convicted of a crime. This lecture course will focus specifically on both federal and state laws and court decisions dealing with the legal rights of probationers, confined prisoners, and parolees in the American criminal justice system. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 310 ORGANIZED AND WHITE COLLAR CRIME (3) The methods through which organized crime influences and, in many instances, controls entire communities. Traditional types of crime heavily influenced by organized crime, such as loan sharking and gambling, will be analyzed in an effort to demonstrate the basis of power and wealth of organized crime in the United States. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 311 VICTIMOLOGY (3) Criminal-victim relationships, with emphasis on victim-precipitated crimes and compensation to the victims. Consideration is given to: concept and significance of victimology; time, space, sex, age, and occupational factors in criminal-victim relationships; victims of murder, rape, other violent crimes and property crimes; victim typology; the public as victim; restitution and compensation to victims. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 312 WOMEN AND THE LAW (3) An examination of the female and her involvement with the legal processes in the United States. Attention will be focused on the female as the offender and as the victim. Analysis of the various theoretical approaches to understanding the female offender will be presented in addition to an exploration of the recent literature on the female and the criminal justice system. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 313 QUANTITATIVE METHODS IN CRIMINAL JUSTICE (3) Examines the relationship and application of statistical techniques to theory building and concept construction. Gives an overview of statistical methods and their appropriateness for research in criminal justice. In addition, various computer-oriented analytical tools and data processing systems available to the criminal justice practitioner will be surveyed. Prerequisite: CJ 331 or its equivalent.

CJ 314 SEMINAR ON OFFENDER REHABILITATION (3) The "nothing works" doctrine generated by the controversial Martinson Report has resulted in considerable confusion regarding the effectiveness of corrections programs designed to elicit specific behavioral changes on the part of the correctional client. This course will thoroughly examine the debate surrounding the "nothing works" doctrine and present those methods of

rehabilitation that have proven effective in the treatment of offenders. Probation, parole and programs for the incarcerated offender will be the primary focus of this course. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 315 STRESS AND THE CRIMINAL JUSTICE SYSTEM (3) An intensive examination of the interpersonal stresses indigenous to Criminal Justice practitioners. Stress management within Criminal Justice organizations will be considered in terms of the administrative and functional problems encountered. Special attention will be given to the criminal justice environment which deals with social service and control on a twenty-four hour basis. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 316 CIVIL LIABILITIES OF CRIMINAL JUSTICE PROFESSIONALS (3) The civil liability for harm inflicted on another. Topics to be considered will include: intentional torts such as assault, battery, and false imprisonment; negligence; torts of strict liability; libel, slander and defamation; liability of owners and occupiers of land; and the liability of state and federal employees for harm caused in their respective professional capacities. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 317 EVOLUTION OF AMERICAN LAW ENFORCEMENT (3) A critical analysis of the contemporary American law enforcement establishment in relation to the evolutionary forces that have contributed to its development. Excepting modern technology, the law enforcement function tends to run in predictable cycles. Traditional in origin, these cyclical phenomena may be observed in the patterns of older societies. Reflections of the past are deemed vital to a more objective and well-rounded perception of current issues.

CJ 318 SPECIAL TOPICS IN CRIMINAL JUSTICE (3) Contemporary analysis of topical criminal justice problems or programs of special interest because of state, federal or international events. The instructor will select an area of study which merits special investigation because of contemporary factors in the external environments in which the criminal justice system must operate. The instructor will relate the special topic to traditional materials, but will emphasize how current circumstances give it a unique nature. Prerequisite: CJ 101, 201, 202, 205, or their equivalent.

CJ 319 ECONOMIC CRIME (3) The manner in which professionals in business are able to manipulate and control computer systems and engage in various types of white collar crime will be examined. Emphasis will be placed on consumer and computer fraud, embezzlement, and particular attention will be focused on corporate crime and on the criminal justice system's attempts to identify, prevent, and control it. Prerequisite: CJ 201, 202, 205, or their equivalent.

CJ 320 CRIMINAL PROCEDURE: FOURTH AMENDMENT RIGHTS OF THE ACCUSED (3) A study of due process, the exclusionary rule, and the legal problems associated with arrests, searches, and seizures. Prerequisite: CJ 205 or its equivalent, or permission of instructor.

CJ 321 CRIMINAL PROCEDURE: FIFTH AND SIXTH AMENDMENT (3) A study of the legal problems associated with interrogations, confessions, entrapment, lineups, and wiretapping and electronic surveillance. Prerequisite: CJ 205 or its equivalent or permission of the instructor.

CJ 330 CRIMINAL JUSTICE ADMINISTRATION (3) An appraisal of the organization and procedures within criminal justice agencies and consideration of the principles of organization and methods adopted by progressive agencies to insure effective criminal justice service to the community. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 331 RESEARCH METHODS IN CRIMINAL JUSTICE (3) An introduction to scientific methodology as related to criminal justice. The course will focus on the development of hypotheses, data collection, data analysis and hypothesis verification. Attention is also given to basic statistical techniques appropriate for criminal justice research. Prerequisite: CJ 101, 201, 205, 202, or their equivalent.

CJ 332 HOMICIDE (3) An in-depth discussion of the legal definitions of and rationalizations for homicide. The statistical aggregates of those occasions will be considered in terms of demographic and ethno-cultural phenomena. The murder episode is examined within the context of morality. Prerequisite: CJ 101 or permission.

CJ 340 - 349 SPECIAL TOPICS IN CRIMINAL JUSTICE (3) An in depth study of a limited or specialized area within the criminal justice field. Course content will vary according to the area of specialization of the instructor and the interest of the students. May be repeated if course content differs.

CJ 384 CASE STUDY SEMINAR: ADULT OFFENDERS (3) An eight-week class examining the life history of specific adults convicted of committing crimes, their attitudes, associates, criminality, and interaction with the criminal justice system. Each

student concentrates on a different individual. Connections between the case material and principal theories about the origins of crime, intervention strategies, and criminal justice institutions also will be considered. A field experience will normally be provided. Prerequisite: CJ 205, or permission of instructor and Junior status or better. Cannot be taken concurrently with CJ 385.

CJ 385 CASE STUDY SEMINAR: JUVENILE OFFENDERS (3) An eight-week class examining the life history of specific juveniles implicated in one or more delinquent acts, their attitudes, associates, delinquency, and interactions with the criminal justice system. Each student concentrates on a different individual. Connections between the case material and principal theories about the origins of crime, intervention strategies, and criminal justice institutions also will be considered. A field experiences will normally be provided. Prerequisite: CJ 205 or permission of instructor and Junior status or better. Cannot be taken concurrently with CJ 384.

CJ 398 FIELD PRACTICUM IN CRIMINAL JUSTICE (6) The field practicum class involves the student's participation in the day-to-day functions of a publicly funded criminal justice agency. The course is designed to provide students with an opportunity to translate the theoretically oriented classroom experience into practical application. Consists of either 8 weeks of full-time placement or 16 weeks of part-time placement. Prerequisite: Permission of the Instructor.

CJ 399 INDEPENDENT STUDY (3-6).

ECONOMICS/BUSINESS MANAGEMENT

The Department of Economics and Business Management offers two majors, leading to a B.A. in Economics or to a B.S. in Business Management.

Economics is a problem-based social science dealing with the relevant contemporary issues of unemployment, inflation, monopoly, pollution, income distribution, and productivity. Economics utilizes models, or simplifying constructs, for organizing facts in an effort to develop policy alternatives. The strength of economics is its ability to provide a logical, ordered way of looking at various problems and issues.

Business is the applied science of the possible in the economic world. Management principles serve as guidelines to achieve more effective and efficient performance in business organizations. Business Management offers a clear direction in the pursuit of knowledge in producing, directing, financing, and promoting products and services.

Varied in their objectives and flexible in orientation, the Economics and Business Management programs are geared to prepare undergraduates for successful entry into the job market. In addition, the Economics program gives students the analytical foundation for graduate study in economics, business administration, public administration, urban planning, and related disciplines. The Business Management program provides a sound background in the areas of accounting, finance, management, marketing, and labor relations. This program builds a solid framework for graduate work in business administration, law, public administration, and other fields. Business Management is also an area for certification in Secondary Education (see the department chairperson for more information).

The department's internship program is intended to allow students to apply analytical classroom material to practical experience. Acceptance into an internship program is reserved for second semester juniors and seniors with demonstrated academic competence.

REQUIREMENTS FOR ECONOMICS MAJORS

The department accepts as economics majors only those students who have demonstrated a basic level of ability and interest in economics.

REQUIRED COURSES

EC 101 Principles of Macroeconomics (3)
EC 102 Principles of Microeconomics (3)
EC 201 Microeconomic Theory (3)
EC 202 Macroeconomic Theory (3)
EC 204 Introduction to Mathematical Economics (3)
MA 108 Elementary Statistics (3)
MA 115 Mathematics for Business and Social Sciences (3)

ELECTIVES FOR THE ECONOMICS MAJOR - 15 credits

EC 300 Money and Banking (3)
EC 301 State & Local Finance (3)
EC 302 Economic History of United States (3)
EC 303 Economics of Development (3)
EC 304 Urban Economics (3)
EC 305 Introduction to Econometric Methods (3)
EC 306 Managerial Economics (3)
EC 311 Economic Fluctuations and Business Forecasting (3)
EC 312 Labor Economics (3)
EC 314 Industrial Organization (3)
EC 315 Public Finance (3)
EC 316 Economic History of Europe (3)
EC 317 Comparative Economic Systems (3)
EC 318 International Economics (3)
EC 319 Development of Economic Thought (3)
MG 338 International Business (3)
EC 350 Contemporary Economic Issues (3)
EC 398 Senior Research Seminar (3)
EC 399 Independent Study (3-6)

ECONOMICS MINOR

The Economics minor program is intended for non-economics majors who choose to achieve some proficiency in economic analysis. It involves a minimum of eighteen credits in Economics.

The program in economics is designed to develop an understanding of economic relationships in contemporary life in order to equip a student to analyze economic issues of social and economic policy. This includes a systematic introduction to the basic theoretical and empirical techniques of economics. The program seeks to accommodate a broad range of student interests including preparation for careers in business or government, and graduate school in economics, business, law, or public administration.

REQUIRED COURSES FOR THE ECONOMICS MINOR - 6 credits

EC 101 Principles of Macroeconomics (3)
EC 102 Principles of Microeconomics (3)

ELECTIVES FOR THE ECONOMICS MINOR - 12 credits

EC 201 Microeconomic Theory (3)
EC 202 Macroeconomic Theory (3)
EC 204 Introduction to Mathematical Economics (3)
EC 300 Money and Banking (3)
EC 301 State & Local Finance (3)
EC 302 Economic History of United States (3)
EC 303 Economics of Development (3)
EC 304 Urban Economics (3)
EC 305 Introduction to Econometric Methods (3)
EC 306 Managerial Economics (3)
EC 311 Economic Fluctuations and Business Forecasting (3)
EC 312 Labor Economics (3)
EC 314 Industrial Organization (3)
EC 315 Public Finance (3)
EC 316 Economic History of Europe (3)
EC 317 Comparative Economic Systems (3)
EC 318 International Economics (3)
EC 319 Development of Economic Thought (3)
EC 350 Contemporary Economic Issues (3)
EC 398 Senior Research Seminar (3)

ECONOMICS MAJOR WITH A FINANCE MINOR:

The Economics major with a Finance minor is a program designed to develop an understanding of theoretical and empirical techniques of economics combined with a comprehension of financial markets and decision making within a business enterprise. The goal of the program is to provide students with an appropriate course of study for entry into the professional job market. The course work for the Finance Minor (18 credits) is listed below.

MG 207 Financial Management (3)
MG 312 Investments (3)
MG 318 Advanced Managerial Finance (3)
MG 319 Investment Portfolio Analysis (3)
MG 320/EC 300 Money and Banking (3)
MG 329 Principles of Modern Bank Management (3)
MG 332 The Money Market: Theory and Practice (3)

REQUIREMENTS FOR BUSINESS MANAGEMENT MAJORS

Acceptance in the business management major is competitive. Students who have demonstrated proficiency in their status as pre-business students during their freshman and sophomore years are accepted into the business major upon completion of 54 - 60 credits on a space available basis. Business Management Majors must complete a minimum of 30 credits in the major at Westfield State College in order to graduate.

BUSINESS CORE 33 CREDITS

MG 104 Principles of Accounting I (3)
MG 105 Principles of Accounting II (3)
MG 107 Software Applications in Management (3)

MG 207 Financial Management (3)
MG 220 Production/Operations Management (3)
MG 221 Business Management (3)
MG 231 Marketing Management (3)
MG 241 Business Law (3)
MG 250 Quantitative Approach to Business Decisions (3)
MG 325 Business Policy and Strategy (3)
MG 338 International Business (3)

NON-BUSINESS REQUIRED COURSES 18 CREDITS

EC 101 Macroeconomics (3)
EC 102 Microeconomics (3)
EN 103 Speech (3)
EN 392 Business & Technical Writing (3)
MA 115 Math for Business & Social Science (3)
MA 108 Statistics (3)

BUSINESS CONCENTRATIONS (NOT MORE THAN ONE CONCENTRATION PER STUDENT) 15 CREDITS

ACCOUNTING
MG 310 Federal Income Taxation (3)
MG 311 Auditing (3)
MG 315 Intermediate Accounting I (3)
MG 316 Intermediate Accounting II (3)
MG 317 Cost Accounting (3)

FINANCE
MG 312 Investments (3)
MG 318 Advanced Managerial Finance (3)
MG 320/EC 300 Money and Banking (3)
300 Level Finance Elective (3)
300 Level Finance Elective (3)

MANAGEMENT
MG 301 Labor Relations (3)
MG 308 Organizational Development & Behavior (3)
MG 321 Management Information Systems (3)
300 Level Management Elective (3)
300 Level Management Elective (3)

MARKETING
MG 306 Distribution Management (3)
MG 307 Marketing Research Techniques (3)
MG 309 Sales and Sales Management (3)
300 Level Marketing Elective (3)
300 Level Marketing Elective (3)

ECONOMICS (Required for Teacher of Business Certification)
EC 201 Microeconomic Theory (3)
EC 202 Macroeconomic Theory (3)
EC 302 Economic History of United States (3)
EC 306 Managerial Economics (3)
Any Upper Level Economics Elective (3) (other than MG 338)

CERTIFICATION FOR TEACHER OF BUSINESS MANAGEMENT (5-12)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach Business at the Middle or High School levels must complete the following:
All courses for the Business Management major with an Economics Concentration
The 18-credit secondary education sequence, described in the Education Department listings
MG 351 Teaching Methods in Business

BUSINESS MINOR

The Business Minor Program is intended for non-business majors who choose to develop some proficiency in the business core area. The minor involves a minimum of eighteen credits in Business chosen from the Area I courses listed below:

MG 104 Principles of Accounting I (3)
MG 105 Principles of Accounting II (3)
MG 107 Software Applications in Management (3)
MG 207 Financial Management (3)
MG 220 Production/Operations Management (3)
MG 221 Business Management (3)
MG 231 Marketing Management (3)
MG 241 Business Law (3)
MG 250 Quantitative Approach to Business Decisions (3)
MG 325 Business Policy and Strategy (3)
MG 338 International Business (3)

ECONOMICS COURSES

EC 101 PRINCIPLES OF MACROECONOMICS (3) An introduction to economic analysis with emphasis on the application of economic principles to an understanding of contemporary problems. Topics to be discussed include: the nature of a market economy, national income, employment and fiscal policy, characteristics of the American monetary and banking system, economic growth and international trade.

EC 102 PRINCIPLES OF MICROECONOMICS (3) Emphasis on the economics of the firm and resource allocation. Topics to be discussed include: the price and output determination under pure competition, pure monopoly, monopolistic competition, and oligopoly, the resource market,international trade, and an evaluation of American capitalism. Prerequisite: EC 101

EC 201 MICROECONOMIC THEORY (3) An examination of the basic assumptions and methods of analysis employed in microeconomic theory. Topics studied include elasticity concepts, demand derivation, production and cost relationships, pricing under various market structures, and distribution theory. These topics are integrated through short and long-run analysis as applied to the firm and industry. Lecture and exercises of concepts is included. Prerequisite: EC 102.

EC 202 MACROECONOMIC THEORY (3) Analysis of the level of national income, employment, price level and the rate of growth in the economic system. Includes analysis of consumption and saving, factors affecting private investment, prosperity and depression, interactions between money and national income, implications for public policy. Lecture, discussion and exercise work. Prerequisite: EC 101.

EC 204 INTRODUCTION TO MATHEMATICAL ECONOMICS (3) A study of the principal mathematical formulations used in economic analysis. Topics to be discussed include: elementary mathematical economics confined to the fields of college algebra and trigonometry, differential and integral calculus and its relation to the concepts of elasticity and production functions, and differential and difference equations and their employment in models of stable competitive equilibrium. Prerequisites: EC 101 and EC 102. One year of college algebra or permission of instructor.

EC 300/MG 320 MONEY AND BANKING (3) A study of the relations, institutions, policies, and problems of the American monetary system. The course covers both theoretical and practical aspects of the system as it relates to the goals of full-employment, price stability, and economic growth. Prerequisite: EC 101.

EC 301 STATE AND LOCAL FINANCE (3) Analysis of state and local government revenue sources, expenditures, and fiscal surplus. Problems of intergovernmental fiscal relations are analyzed with particular relevance to the State of Massachusetts and its fiscal problems. Prerequisite: EC 102.

EC 302 ECONOMIC HISTORY OF THE UNITED STATES (3) A study of the evolution of the American economy from colonial times to 1960. Recent analysis is utilized to evaluate the economic impact of industrialization, land policy, slavery, wars, banking, and transportation. The role of the government is carefully traced in this context. Prerequisites: EC 101 and 102.

EC 303 ECONOMICS OF DEVELOPMENT (3) Examination and analysis of the major theories of economic development: "surplus labor," capital accumulation, historical and cultural approaches. Investigates principal policy alternatives: foreign trade problems, "choice technique," sectoral balance, education, land reform. Discusses issues in foreign aid and gives a limited number of country studies. Prerequisite: Any 3-credit course in Economics.

EC 304 URBAN ECONOMICS (3) An economic analysis of contemporary urban issues. The course utilizes economic theory to examine and evaluate problems that affect the urban sector specifically, and the economy in general. Topics analyzed include; rent inequality, discrimination, the regulation of public utilities, and the economics of crime. Prerequisite: EC 102.

EC 305 INTRODUCTION TO ECONOMETRIC MODELS (3) An introduction to quantitative methods in economics.Topics to be discussed include: probability; random variables; frequency functions, sampling; descriptive statistics; estimation and hypothesis testing; regression analysis; stochastic formulations of economic relationships such as consumption, production, and wage functions; systems analysis of these functions. Prerequisites: EC 101, EC 102, and MA 108 or permission.

EC 306 MANAGERIAL ECONOMICS (3) An emphasis on the application of microeconomic theory in the solution of everyday business problems faced by the firm relating to production, costs, demand, expenditures, etc. A course designed for Business Management students. Prerequisite: EC 101 and 102.

EC 311 ECONOMIC FLUCTUATIONS AND BUSINESS FORECASTING (3) A study of the behavior of the economy over time. Analysis of the business cycle in historical perspective and in contemporary terms. Explanations for the variability in employment, prices, and growth will be discussed. In addition, the government's proper role in a mixed economy will be explored. Prerequisite: EC 101.

EC 312 LABOR ECONOMICS (3) An examination of the theory of wage determination and labor markets. Topics include the economics of collective bargaining, evaluation of criteria used for wage determination, and collective bargaining issues and procedures on the economy. Prerequisite: EC 102.

EC 314 INDUSTRIAL ORGANIZATION (3) An examination of modern business structure, conduct, and performance in imperfect markets. An emphasis on the development of public policy in the United States including federal anti-trust legislation and its judicial interpretation and regulation of business practices through the Federal Trade Commission. Prerequisite: EC 102.

EC 315 PUBLIC FINANCE (3) The role of government in attaining an efficient allocation of resources and an equitable distribution of income. Emphasis is placed on criteria for the evaluation and selection of public expenditure and tax programs including the problem of coordinating federal, state and local finance. Special attention is given to current policy issues. Prerequisite: EC 101 and EC 102.

EC 316 ECONOMIC HISTORY OF EUROPE (3) An analysis of the economic development of Europe from feudalism through the end of World War II. Special emphasis will be given to the rise and fall of the feudal economy, the transformation of agriculture, mercantilism, and the development of capitalism including the Industrial Revolution, urbanization, and economic imperialism. Prerequisite: EC 101.

EC 317 COMPARATIVE ECONOMIC SYSTEMS (3) A comparative economic analysis of the basic theories underlying capitalism, socialism, communism and the typical variants of these economic systems. The actual systems as they are exemplified by modern American capitalism, British and Swedish socialism and the hybrid systems of India and other developing countries will be evaluated. Prerequisite: EC 101 and EC 102.

EC 318 INTERNATIONAL ECONOMICS (3) An investigation into the theoretical and empirical basis of international trade and factor movements. The course deals with such basic topics as barriers to trade, the balance of payments, international monetary relations within the context of an historical perspective, present conditions, and future expectations. Prerequisites: EC 101 and 102.

EC 319 DEVELOPMENT OF ECONOMIC THOUGHT (3) Analyzes the content and limitations of contemporary economic thought in contrast with earlier theoretical systems. Traces the evolution of systematic economic thinking through the dual influence of internal logical development and the external social and intellectual environment. Central economic issues that are of current significance, such as price formation, distribution of wealth and income, population and international trade, etc., will be analyzed in historical perspective. Prerequisites: EC 101 and EC 102.

EC 350 CURRENT ECONOMIC ISSUES (3) Analysis of contemporary issues in domestic and international economic theory and policy at both macro- and micro-economic levels, including study of public vs. private sector relationships, the market structure, and the industrial base. Prerequisites: EC 201 or 202 or permission of instructor.

EC 398 SENIOR RESEARCH SEMINAR (3) Training in the application of economic theory and measurement to specific economic problems of local, national or international significance and in the preparation of research papers. Class discussion of student reports and assigned readings dealing with issues of economic theory and policy. Under faculty guidance, students will select a topic, design a research procedure, and complete an individual or group project. Prerequisites: EC 201 and EC 202.

EC 399 INDEPENDENT STUDY (3-6) Prerequisite: Permission.

BUSINESS MANAGEMENT COURSES

NOTE: Junior status is required for all courses except for those marked with an asterisk (*).

*MG 101 INTRODUCTION TO BUSINESS (3) An introduction to the field of Business Management. The course covers types of businesses, their organization, and the general functions of financial management, production management and marketing management. (For non-business majors only).

*MG 104 PRINCIPLES OF ACCOUNTING I (3) Development of a framework of concepts underlying the preparation of corporate financial statements which are useful to investors, economists, the general public, and other interested external parties. The balance sheet and income statement as conventionally reported by American corporations are studied as to methodology for their preparation, their interpretation, and their strengths and limitations. Prerequisites: MG 107.

*MG 105 PRINCIPLES OF ACCOUNTING II (3) Continuation of the emphasis in Principles of Accounting I upon corporate financial reporting to external parties. An introduction to the concepts underlying the preparation of accounting information which is useful to management in the planning and control of business operations. Prerequisite: MG 104.

*MG 107 SOFTWARE APPLICATIONS IN MANAGEMENT (3) Examines software designed for management including spreadsheets, data-base packages, and mainframe communications. Provides practical experience as well as systems theory necessary for managerial decision-making. Fundamentals of computer literacy and logical thinking, as they relate to management, are emphasized.

MG 205 FUND ACCOUNTING (3) Concerns the accounting theory applied to nonprofit entities such as municipalities, universities, hospitals, and churches. Content constitutes a significant portion of the Uniform Certified Public Accountant examination. Prerequisite: MG 104.

MG 207 FINANCIAL MANAGEMENT (3) An analysis of the financial structure of American business with major emphasis on corporate finance. Among the topics to be considered are: promotion, government regulation of security sales, stocks, bonds, and stock market, investment banking, corporate dividend and investment policies, security analysis, working capital, corporate capital structure, government regulation of financial policies and mutual funds. Some attention is given to broad economic problems such as the influence of corporate finance on prices, investment, saving, prosperity and depression. Prerequisite: MG 104.

MG 210 BUSINESS DATA PROCESSING APPLICATIONS (3) Examines computer applications to business systems of purchasing and receiving, inventory control, production control, distribution and billing, accounts receivable, accounts payable, and payroll. Material covered also includes basic mathematics for computers and the operation of data processing equipment. Prerequisite: MG 104.

MG 220 PRODUCTION/OPERATIONS MANAGEMENT (3) Provides students with a working knowledge of manufacturing and purchasing operations. The course covers: manufacturing methods, location and layout, production planning and control, purchasing, inventory control, quality control, labor relations, and general manufacturing management. Prerequisite: MG 104.

MG 221 BUSINESS MANAGEMENT: A SURVEY OF ORGANIZATIONAL DEVELOPMENT AND MANAGEMENT PRINCIPLES (3) Provides a general probe into the role of management in business, exploring concepts of management used in business, various issues of Business Management structures and the organization of management. Topics to be studied include an examination of a systems approach to management, human behavior, personality conflict in organizations and techniques of creative management. The course shall touch upon several leadership development strategies, models of executive action in business policy or control, and provide a broad comprehensive over-view of current issues concerning women, minorities and social responsibility in the field of Business Management. Prerequisite: MG 107

MG 231 MARKETING MANAGEMENT (3) A developmental survey into the field of Marketing in business, which will study the roles of marketers in business and society as a whole. Concentration shall be placed on defining what is marketing, what does a marketing executive do, what are the various systems of marketing, and what economic factors affect marketing. In order to probe these questions, the course shall examine consumer behavior, purchase decision making, product pricing, policy and planning, channels of distribution in business, and marketing institutions and organizations. Further dimensions of advertising, marketing research, analysis, forecasting, and marketing information flows, controls and performance shall be explored. Prerequisites: Junior status.

*MG 241 BUSINESS LAW I (3) Develops an understanding of the philosophical and logical development of the law and its relationship to business through the use of text and case analysis. Explores, in-depth, substantive contract law, which forms the basis for business transactions, commencing with the initial negotiation and offer through performance of legally binding obligations and the remedies available if obligations are not performed.

MG 242 BUSINESS LAW II (3) Continuation and extension of the principles of Business Law I into other areas of law directly affecting modern business. Emphasis is on agency law, including employment; and property law both real and personal. Introduces forms of business organizations and commercial and financial transactions. Prerequisite: MG 241.

MG 250 QUANTITATIVE APPROACHES TO BUSINESS DECISIONS (3) Covers the application of quantitative techniques to business problem-solving and decision making. Subjects include linear programming, probabilities, simulations, PERT, queuing, and game theory. The application of these analytical tools to business decision problems such as: distribution, inventory control, product mix, scheduling, competitive strategy, and forecasting is covered through case analysis. Approximately 1/3 of the course is devoted to case work. Prerequisites: MG 207, 220, 231.

MG 301 LABOR RELATIONS (3) Examines the legal relationship between employer and employee. Uses text reading and case analysis to cover labor legislation, union organizations and practices, unfair labor practices, employment discrimination, and affirmative action programs. Prerequisite: MG 241.

MG 302 SMALL BUSINESS MANAGEMENT (3) A detailed study of the knowledge required and the factors involved in starting and operating a small business. Cost and money management are emphasized. Other areas covered include: product selection, location and timing, pricing and other marketing techniques, purchasing and inventory control, and the personal factors contributing to success. Prerequisites: MG 231, 241.

MG 303 OFFICE MANAGEMENT AND PROCEDURES (3) Examines the administrative procedures necessary to control a business. These include office personnel, equipment, procedures, forms design and control, and business record keeping and reporting. Prerequisites: MG 221.

MG 304 MANAGERIAL ACCOUNTING (3) Designed to be used by students with a basic financial accounting background. Emphasis is on uses of accounting data internally by managers in setting plans and objectives in controlling operations. Topics covered will be management decision models, cost behavior patterns, profit planning and control. Prerequisite: MG 105.

MG 306 DISTRIBUTION MANAGEMENT (3) A vital part of the marketing world today is efficient physical distribution. Here the physical flow of products from manufacturers to retail stores is studied in depth. Included are the following areas: transportation, warehousing, inventory control, packaging, and materials handling. Prerequisite: MG 231.

MG 307 MARKETING RESEARCH TECHNIQUES (3) Reviews the specialized techniques for conducting marketing research and how they contribute to marketing strategy. Material covered includes quantitative and qualitative research, simulation, forecasting, survey preparation, and secondary source analysis. Prerequisite: MG 231.

MG 308 ORGANIZATIONAL DEVELOPMENT & BEHAVIOR (3) Examines the foundations for understanding individual and group behavior and relates these points to the problems faced by managers in organizations. Emphasis is on topics of study relevant to developing managerial effectiveness in interrelationships with other organizational members. Course attempts to develop an understanding of the relationship between individual and organization and to identify management skills that can contribute to effective performance. Prerequisite: MG 221.

MG 309 SALES AND SALES MANAGEMENT (3) A course in effective salesmanship and how to set up and control a field sales organization. Course emphasizes the role of personal selling in the marketing mix and covers all basic sales management issues. Prerequisite: MG 231.

MG 310 FEDERAL INCOME TAXATION (3) A first course in Federal Taxation which provides an overview of past and present Internal Revenue Codes. Emphasis is on personal and business income tax procedures and preparation. Exclusions, deductions, and income from proprietorships, partnerships, rental units, trusts, and estates, dividends, and interest are included. Prerequisite: MG 105.

MG 311 AUDITING (3) Covers the principles of auditing, using accounting principles as criteria. Auditing procedures and analysis of supporting documentation materials is emphasized. A practice audit and case studies are required. Prerequisite: MG 105.

MG 312 INVESTMENTS (3) A study of various investment securities for analysis and valuation. Included are corporation, public utility, banking, and investment company securities. Prerequisite: MG 207.

MG 313 COLLECTIVE BARGAINING (3) Combines the historical, behavioral, and legal elements covering the process of negotiating contractual conditions of employment. Current labor agreements are studied and distinctions between public and private sectors are identified. Prerequisite: MG 241.

MG 314 HUMAN RESOURCE MANAGEMENT (3) Covers the process of manpower planning and utilization in organizations. Personnel forecasting, employment, training and development, placement, motivation, wage and salary administration, employee benefits, and performance evaluation are covered. Special emphasis is given to problems arising between manager and subordinates, the professional in human services, minority groups, the hard-to-employ worker, and the impact of public policy. Prerequisite: MG 241.

MG 315 INTERMEDIATE ACCOUNTING I (3) Intermediate Accounting I advances the depth of accounting training that was pursued in the Principles course. Further study of financial reporting and of recent developments in valuation and reporting practices will be made. An appreciation of GAAP and SEC developments will be required. Prerequisite: MG 105.

MG 316 INTERMEDIATE ACCOUNTING II (3) A continuation of the professional theory and problem solving in Accountancy developed in MG 315, with emphasis on research. Prerequisite: MG 315.

MG 317 COST ACCOUNTING (3) Basic cost accounting methods for data collection, processing and reporting. Emphasis is on direct, job, process and standard cost systems. Estimating and profit calculation are also covered. Prerequisite: MG 105.

MG 318 ADVANCED MANAGERIAL FINANCE (3) A study of the financial operation and control of a corporation. Financial policies, practices, and organization are included. Prerequisite: MG 207.

MG 319 INVESTMENT PORTFOLIO ANALYSIS (3) Advanced analysis of market behavior involving detailed discussion of modern portfolio theory. The modern portfolio theory approach is contrasted with other evaluative techniques. Prerequisite: MG 312.

MG 320/EC 300 MONEY AND BANKING (3) A study of the relations, institutions, policies, and problems of the American monetary system. The course covers both theoretical and practical aspects of the system as it relates to the goals of full-employment, price stability, and economic growth. Prerequisite: EC 101.

MG 321 MANAGEMENT INFORMATION SYSTEMS (3) Provides the background and perspective necessary to understand, utilize and interact with integrated, management information systems. Various techniques from industrial engineering, computerized data processing, and operations research are covered. These techniques are then applied to the planning, design and implementation of information systems. Course involves case work. Prerequisite: MG 107.

MG 325 BUSINESS POLICY AND STRATEGY (3) Emphasizes management planning and control techniques in solving business problems and in determining strategy for sales and profit growth. An integrated case study approach will be used. The course will illustrate the many factors that influence complex business decisions. FOR SENIORS ONLY. Prerequisites: MG 207, 221, 231, 241.

MG 326 INSURANCE AND RISK MANAGEMENT (3) Provides the student with an in-depth understanding of all phases of insurance and risk management. The topics to be studied are basic principles, the nature and operation of insurance business, and the nature of risk and risk management. Included in these topics are property insurance; casualty insurance; life, accident, and health insurance; and group and social insurance. Prerequisite: MG 207.

MG 327 SMALL BUSINESS INSTITUTE (3) Small Business Institute is a cooperative effort between the Small Business Administration and W.S.C.'s Business Management Department. The course will supplement the academic training of business students with "real-world" problems from the small business sector. Student teams from the Business Management Program will furnish in-depth management assistance to small businesses. Areas of assistance include: accounting & record keeping, market research, advertising & sales promotion, inventory control, etc. Prerequisite: junior or senior status, & permission of department.

MG 328 ADVERTISING TECHNIQUES AND STRATEGIES (3) Vital to the world of modern business is an understanding of the role of advertising. This course provides a study of the techniques and practices of advertising today. Strategies and procedures for campaign design and execution will be examined. Students will take an advertising idea through the various stages of planning, visualizing and writing advertising copy. Prerequisite: MG 231.

MG 329 PRINCIPLES OF MODERN BANK MANAGEMENT (3) This course teaches the theory and practice of modern bank management, which includes the following: portfolios and functions, branch systems, holding companies, multi-national banking systems, asset and liability management in commercial banks, trust services and strategies. It also includes a review of other financial intermediaries. Prerequisite: MG 207.

MG 330 CONTEMPORARY PROFESSIONAL ACCOUNTING PROBLEMS (3) Examines professional accountancy problems, design of format solution sets, and guides to underlining theory. This course supplies an integrated approach to the problems and theory sections of the CPA and CMA exams. Prerequisite: MG 316.

MG 331 ADVANCED ACCOUNTING (3) An intensive course that specializes in areas of accounting including: partnerships and joint ventures, branches, consolidated statements, segment reporting, interim statements, multi-national companies, bankruptcy and reorganization, installments and consignments, fund accounting, and estates and trusts. Prerequisite: MG 316.

MG 332 THE MONEY MARKET: THEORY AND PRACTICE (3) The course focuses on short-term, liquid investments. The study of domestic and international instruments leads to analysis of the yield curve, the market makers, arbitrage and the role of the central bank in determining the price and supply of money. Prerequisite: MG 207.

MG 333 LAW AND BUSINESS: CURRENT ISSUES (3) An upper level course, the objective will be to develop an understanding of the impact of the law on the complex climate in which the contemporary business entity operates. Students will examine the legal environment of managerial behavior in order to understand the philosophical, political, historical, social and ethical bases of American business. Current problems, including anti-trust, unfair competition, regulation and deregulation, marketing, consumerism, corporate social responsibility, and business ethics, will be explored. Prerequisite: MG 241.

MG 334 SEMINAR IN NEW VENTURE IN BUSINESS (3) The objective is to understand the pervasiveness of conceptualizing, investigating, planning and establishing a new venture. Students will explore the interrelationships among the complex elements necessary to make an innovative idea into a new, profit making venture. The principles studied will apply equally to small, entrepreneurial businesses and new product or process development within a large organization. Students will study the elements that lead to success; then, through simulation and participation, will create a prototype business plan analyzing and integrating the functional, organizational and financial aspects of the venture. Prerequisites: MG 231, 241, 207, and permission of department.

MG 335 MARKETING COMMUNICATIONS (3) Exposes students to all aspects of marketing communications and promotion, including advertising, personal selling, sales promotion, public relations, publicity, and word of mouth. It integrates communication theory with pragmatic aspects of the organizational/environmental interface. The course also covers non-business promotion, services promotion, promotion management, consumer correspondence, and consumer education. Prerequisite: MG 231.

MG 336 MANAGEMENT OF RETAILING ENTERPRISES (3) Retailing concepts, structure, and competition are studied and evaluated. Attention is given to techniques and procedures of purchasing goods for resale. The necessity of keeping merchandise assortments adjusted to constantly changing consumer demands is analyzed. Retail organizational trends and management, market analysis, store location, sales forecasting, and retail advertising will be examined. Prerequisite: MG 231.

MG 337 CONSUMER BEHAVIOR (3) By gaining a better understanding of the factors that affect consumer behavior, marketers are in a better position to predict how consumers will respond to their marketing strategies. Consumer Behavior draws on the Social Sciences in addition to the quantitative characteristics of the market such as: population patterns, income distribution, living standards, and occupational changes.

MG 338 INTERNATIONAL BUSINESS (3) Provides an opportunity to bring the tools and information gained in previous courses to the task of solving managerial problems in international and foreign environments. Focuses on an analysis of market opportunities and methods of entry in foreign business areas and on related business problems. Prerequisite: senior status business major or permission of instructor.

MG 350 SPECIAL TOPICS (IN BUSINESS MANAGEMENT) (3) Examines and analyzes contemporary topics in Business Management. Educates the student in the application of strategy and integrates fundamental problem solving techniques into contemporary situations. Focuses on current business issues, yet takes a traditional perspective. 33

MG 351 TEACHING METHODS IN BUSINESS (3) Preparation for teaching of business in the middle and secondary schools through the following: preparation of lesson plans and lessons and development of evaluation

methods appropriate to student developmental level and specific to business content. Analysis of teaching techniques and and instructional materials will focus on differences between courses aimed at developing skills and those designed to teach understanding of the conceptual basis of business and economics. Approaches to teaching studied will include the following: sensitivity to surrounding cultures within which businesses operate; interrelationship of businesses with individuals and society; need for appropriate responses to changes in technology; and importance of employment relationships to the content area.

MG 398 BUSINESS INTERNSHIP (3-15) Full time business student/ must be a second semester junior or senior & have permission of department.

MG 399 INDEPENDENT STUDY Prerequisite: Permission of Department.

EDUCATION

Since its founding in 1836, Westfield State College has been a leader in teacher preparation. To become a competent, professional teacher of today, Education Majors acquire knowledge in a wide variety of areas. Therefore, our teacher education programs represent an integration of the courses and course sequences in our department and those of the college's other academic departments.

All of our undergraduate teacher education programs have been accredited by the New England Association of Schools and Colleges (1990-2000) and by the National Council for the Accreditation of Teacher Education (1987-1994). Interstate Certification Compact approval from the Massachusetts Department of Education was awarded for elementary, secondary, and special education programs (1983-1992).

Teacher-education programs at the elementary level include early childhood education, special education, and elementary education. At the secondary level, the approved programs include English, performing arts, history, mathematics, general science, chemistry, biology, business management, and occupational education. Special education programs prepare teachers to work with children with special needs at the elementary level or to work with children with intensive special needs at all grade levels.

The Regulations for Certification of Educational Personnel in the Commonwealth of Massachusetts have recently been revised. Undergraduate students admitted to Westfield State College in the fall of 1991 and thereafter are required to meet all provisions of the new regulations. These regulations require that all prospective teachers complete a liberal arts, sciences or interdisciplinary major. Furthermore, all prospective teachers certified after October 1, 1994 will be provisionally certified; full certification is available only upon completion of a masters degree. For details about program requirements students should contact their education advisor.

STUDENTS WHO EXPECT TO BE CERTIFIED PRIOR TO OCTOBER 1, 1994, ARE SUBJECT TO THE OLD EDUCATION REQUIREMENTS AND SHOULD CONSULT AN EARLIER COLLEGE BULLETIN FOR DETAILS ABOUT THEIR MAJOR AND CERTIFICATION REQUIREMENTS.

Admissions and retention criteria for Teacher Certification Programs are maintained by the Department of Education. Proof of proficiency in written English must also be evidenced by a point score of 2.3 (C+) or better in EN101 and EN102.

A complete listing of teacher preparation programs sponsored or co-sponsored by the Department of Education includes:

Early Childhood (N-3)
Elementary (1-6)
English (5-9)
English (9-12)
Communication and Performing Arts (All levels)
History (5-9)
History (9-12)
Mathematics (5-9)
Mathematics (9-12)
Chemistry (9-12)
Biology (9-12)
General Science (5-9)
General Science (9-12)
French (5-12)
Spanish (5-12)
Business Management (5-12)
Special Needs (N-9)
Intensive Special Needs (All Levels)

ELEMENTARY EDUCATION

The Elementary Education programs are designed to prepare outstanding teachers. Students enrolled in a Bachelor of Science in Education Program may choose either Early Childhood (Grades N-3) or Elementary Education (Grades 1-6) as their major field or complete a certification program in Early Childhood or Elementary Education. All students majoring in education or completing a certification program must also complete a liberal arts, sciences or liberal studies major.

Generally, a student's first two years are devoted to acquiring a broad base in the liberal arts. During the sophomore year students also take introductory level education courses and participate in practical experiences in the classroom which help to confirm their desire to enter the teaching profession. During the last two years of college, students complete their education coursework and their arts or sciences major. During the senior year students must complete a practicum experience. Undergraduates who have completed all of the requirements for the major or certification programs in Early Childhood or Elementary Education are recommended by the Department of Education for provisional certification by the Commonwealth of Massachusetts.

PROGRAM REQUIREMENTS: EARLY CHILDHOOD (N-3)

MAJOR PROGRAM (36 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 Educational Planning and Evaluation: Early Childhood and Elementary Grades (3)
ED 308 Early Childhood Curriculum (3)
ED 381 Early Intervention for Young Children with Special Needs (3)
ED 305 Literature and Language Arts (3)
ED 303 Early Literacy and Reading (3)
ED 336 Practicum (12)
PY 202 Child Psychology (3)

CERTIFICATION PROGRAM (30 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 Educational Planning and Evaluation:
Early Childhood and Elementary Grades (3)
ED 308 Early Childhood Curriculum (3)
ED 381 Early Intervention for Young Children with Special Needs (3)
ED 336 Practicum (12)
PY 202 Child Psychology (3)

PROGRAM REQUIREMENTS: ELEMENTARY EDUCATION (1-6)

MAJOR PROGRAM (36 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 Educational Planning and Evaluation: Early Childhood and Elementary Grades (3)
ED 306 Elementary Curriculum and Instruction (3)
ED 303 Early Literacy and Reading (3)
ED 305 Literature and Language Arts (3)
Elective coursework in Elementary, Early Childhood or Special Education (6)
ED 336 Practicum (6)
PY 202 Child Psychology (3)
One of the following:
BI 101 Science in the Elementary School (3)
MA 203 Math in the Elementary School (3)

CERTIFICATION PROGRAM (27 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 Educational Planning and Evaluation: Early Childhood and Elementary Grades (3)
ED 306 Elementary Curriculum & Instruction (3)
ED 303 Early Literacy and Reading (3)
ED 305 Literature and the Language Arts (3)
ED 336 Practicum (6)
PY 202 Child Psychology (3)
One of the following:
BI 101 Science in the Elementary School (3)
MA 203 Math in the Elementary School (3)

CORE COURSEWORK

The following core coursework is required for students completing the major or certification programs in early childhood and elementary education:

Appreciation of Fine Arts (6 hours)
FA 106 Art Survey
or
FA 104 Design Fundamentals

MU 101 Music Appreciation
or
MU 110 Basic Music Theory

EN 104 Introduction to Theatre may be substituted for the art or music course.

State and Local Government (3 hours)
HI 130 U.S. History and Government

Analytical Science (10 hours)
PS 101 Physical Science
One of the following:
BI 102 Environmental Biology
BI 104 Biology of Organisms
BI 106 Inheritance and Development
As well as:
MA 150 Foundations Sets & Logic

Social Understanding (3 hours)
HI 150 History of the Non-Western World

Note that students must also complete PY101 General Psychology as a prerequisite for Child Psychology.

SPECIAL EDUCATION

Massachusetts State Law requires that children with special needs be served non-categorically and within the least restrictive environment possible. Federal law P.L, 94-142, the Education for All Handicapped Children's Act reinforces Massachusetts legislation and guarantees full education and due process for the handicapped.

Regulations designed to implement these laws clearly state the need for special education teachers to provide services to children who exhibit a wide range of special needs. Therefore, our Special Education Programs respond to these regulations. Two programs are available to students:

1. Teacher of Students with Special Needs (N-9)
2. Teacher of Students with Intensive Special Needs (All Levels)

Students may choose to major or complete the certification program sequence to prepare as a teacher of children with special needs or intensive special needs. Students completing either of the majors or certification programs in special education must also complete a liberal arts, sciences or liberal studies major.

In general the Special Educator is trained in the educational, social, emotional and vocational influences of developmental deviations; observation, identification, assessment and programming processes; adaptation and development of curriculum materials; language acquisition; analysis of behavior; the development and implementation of individual educational programs; knowledge about the legislation; and comprehensive support services for special needs populations. Students completing a program in special education generally devote the first two years to acquiring a broad base in the liberal arts. During the sophomore year students also take introductory level education courses. In the last two years students complete their education coursework and their arts, sciences or liberal studies major. Field experiences attached to education courses prepare students for the senior student teaching practicum.

PROGRAM REQUIREMENTS: TEACHER OF STUDENTS WITH SPECIAL NEEDS (Grades N-9)

MAJOR (33 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 (or ED 352) Educational Planning and Evaluation:
Early Childhood and Elementary Grades (or Middle School) (3)
ED 371 Identification, Assessment, Planning and Programming (Moderate) (3)
ED 378 Classroom Management of Students with Behavorial/Emotional Problems (3)
ED 377 Students with Specific Learning Problems (3)
ED 381 Early Intervention for Young Children with Special Needs (3)
ED 303 Early Literacy and Reading (3)
PY 202 Child Psychology
Appropriate Special Needs Practicum (6)

CERTIFICATION PROGRAM (27 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 319 (or ED 352) Educational Planning and Evaluation:
Early Childhood and Elementary Grades (or Middle School) (3)
ED 371 Identification, Assessment, Planning and Programming (Moderate) (3)
ED 378 Classroom Management of Students with Behavorial/Emotional Problems (3)
ED 377 Students with Specific Learning Problems (3)
PY 202 Child Psychology
Appropriate Special Needs Practicum (6)

PROGRAM REQUIREMENTS: TEACHER OF STUDENTS WITH INTENSIVE SPECIAL NEEDS (ALL LEVELS)

MAJOR (33 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 367 Identification, Assessment, Planning and Programming in Special Education (Severe) (3)
ED 385 Development and Administration of Community Based Resources (3)
ED 386 Education and Training of the Substantially Handicapped (3)
ED 376 Students with Emotional/Developmental Disabilities (3)
ED 381 Early Intervention for Young Children with Special Needs (3)
PY 202 Child Psychology
General Education Elective (upon advisement) (3)
Practicum (6)

CERTIFICATION PROGRAM (27 HOURS):

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 367 Identification, Assessment, Planning and Programming in Special Education (Severe) (3)
ED 385 Development and Administration of Community Based Resources (3)
ED 386 Education and Training of the Substantially Handicapped (3)
ED 376 Students with Emotional/Developmental Disabilities (3)
PY 202 Child Psychology
Practicum (6)

CORE COURSEWORK

Students completing programs in special education must complete PY101 General Psychology as a prerequisite for Child Psychology. The course, HI150 History of the Non-Western World is also required.

ELECTIVE

Elective course work should be selected under advisement.

SECONDARY EDUCATION

The Secondary Education program provides students with basic tools for teaching in select academic disciplines at the middle school, junior, and senior high schools. The course work in instructional methods and strategies for teaching the various academic subjects emphasizes helping the student become skilled at communicating the principles and concepts basic to the academic subject. The programs are structured so that students gain first hand experience in actual classroom situations early in their college studies, usually not later than the sophomore year. Thus, students are better able to make judgments relative to a future career in teaching. With this emphasis on content in the academic discipline and intensive preparation in simulated and actual teaching situations, students experience and demonstrate competencies required for successful teaching.

Students may elect to prepare for teaching in any one (or a combination of) the following areas: Art (N-9,5-12), Biology (9-12), Business Management (5-12), Chemistry (9-12), Communication and Performing Arts (all levels), English (5-9, 9-12), French (5-12), General Sciences (5-9, 9-12), History (5-9, 9-12), Mathematics (5-9, 9-12), Music (N-9, 5-12), Physical Education (N-9, 5-12), Spanish (5-12).

Students who intend to prepare for a teaching career at the middle or secondary level must, in addition to selecting and meeting the requirements of a certifiable major, complete the Professional Sequence in Education. Freshmen who plan to follow the Professional Sequence in Secondary Education should make an appointment to see the Department Chair to complete the application process.

PROFESSIONAL SEQUENCE: MIDDLE SCHOOL GENERALIST (GRADES 5-9)

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 352 Educational Planning and Evaluation: Middle School (3)
ED 359 Curriculum and Instruction: Middle School Generalist (3)
ED 318 Reading in the Content Area (3)
ED 364 Practicum: Middle School (6)
PY 203 Adolescent Psychology (3)

PROFESSIONAL SEQUENCE: MIDDLE (GRADES 5-9) AND SECONDARY (GRADES 9-12) SPECIALIST

ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
ED 352 (or ED 353 or ED 354) Educational Planning and Evaluation (Middle, Secondary or Middle and Secondary) (3)
PY 203 Adolescent Psychology (3)
ED 364 (or ED 369) Practicum: Middle School (Secondary) (6)

Program requirements also include a course in academic methods in addition to the above courses.

Secondary Education also offers a Community Service Placement. This is a six credit course which provides field work for students who wish to augment their teacher preparation sequence with additional clinical experience.

OCCUPATIONAL EDUCATION

In cooperation with the Division of Occupational Education of the State Department of Education, Westfield State College offers a degree program for vocational teachers. This is a Bachelor of Science in Education (Vocational) for teachers of trades. The students in this program are later employed either in their trade area, or in a vocational technical school, or in a comprehensive high school.

Since the students in this program are employed during the day, the program is offered on a part-time basis. In the Commonwealth of Massachusetts a degree is not a requirement for teaching a trade in a vocational school.

PROGRAM REQUIREMENTS: OCCUPATIONAL EDUCATION

ED 141	Educational Psychology Applied to Occupational Education (3)
ED 211	Teaching Methods in Vocational Education (6)
ED 240	Occupational and Training Information (3)
ED 210	Fundamentals of Vocational Education (3)
ED 342	Supervision of Vocational School (3)
ED 212	Management of Vocational Environments (3)
ED 214	Supervised Internships (3)
ED 343	Appraisal and Evaluation Techniques in Occupational Education (3)
ED 344	Curriculum Development in Occupational Education (3)
ED 345	Labor Laws Relating to Occupational Education (3)
ED 347	Principles and Practices of Occupational Guidance (3)

Trade and Teaching Experience: 10-20 credits which may be granted by the State of Massachusetts to persons working toward State approval for vocational teaching.

Students who have four years teaching experience in a state-aided day vocational school and a minimum of eighty credits toward the degree may apply for Trade Experience and Professional Improvement (i.e. workshops, conferences, institutes, etc.) credit as part of the elective core.

JUNIPER PARK SCHOOL

This elementary school is owned by Westfield State College and administered by the City of Westfield Public Schools. It is located adjacent to the college campus. Teacher-education students have the opportunity to observe team teaching, differentiated staffing, demonstration lessons, and innovative curricula taught by master teachers. Juniper Park School affords pre-service and in-service students opportunities to interact with pupils in Grades K-5.

The school staff represents a full range of education personnel including specialists and special educators. This staffing pattern allows Westfield State College students in various teacher-education programs to learn more about their chosen professional area. Westfield State College programs leading to certificates in early childhood education, elementary education, special education, art, music, physical education, and others rely upon the school's staff and physical facilities for pre-practicum and practicum placements of pre-service students.

COURSES

ED 102 INTRODUCTION TO TEACHING (1) Assignment to various educational settings provides prospective teachers with an opportunity to observe individuals, small groups, and whole classes. Students visit with cooperating practitioners for at least 15 contact hours. As a result, students gain understanding about their personal and career goals relative to the teaching field.

ED 103 INTRODUCTION TO TEACHING II (1) Field experience for undergraduates who are desiring further observational experience, as well as those studying in other academic disciplines.

ED 105 IMPROVEMENT OF READING I (3) The course is expressly designed to provide a customized approach to help the student to improve in his/her reading skills. Major areas include the improvement of the student's comprehension, the development of the student's study skills habits and techniques. Scheduling for this course will be highly individualized and flexible, with classes arranged to best suit the student's needs.

ED 106 IMPROVEMENT OF READING II (3) Sequel to ED 105. Some students may take a second semester of the above.

ED 141 EDUCATIONAL PSYCHOLOGY APPLIED TO OCCUPATIONAL EDUCATION (3) Organized around major discussion topics with particular reference to their application in the vocational schools. Among the topics considered are: motivation, readiness, climate for learning, level of aspiration, and the various types of learning.

ED 155 STRUCTURE AND FUNCTIONS OF THE SECONDARY SCHOOL (3) Discussion of various aspects of the secondary school program including co-curricular activities, scheduling, fiscal procedures, legal responsibilities, public relations, systematic environment, and other areas of relationship and interaction. Emphasis will be placed upon the interdependence of the components of the modern secondary school and the role functions of the secondary school. On-site visits to a selected secondary school, research projects (group and individual), and evening panel discussions with members of various school systems will be part of the course requirements.

ED 170 EDUCATION OF EXCEPTIONAL CHILD (3) Introductory course intended as a survey course for both prospective teachers and individuals who are considering working with children who have special needs. It is also intended to serve as an introduction to the special education field.

ED 201 TESTS AND MEASUREMENTS-DIAGNOSIS (3) Examines underlying mathematical, psychological, and social principles pertaining to evaluation and applications of principles to standardized and teacher-made tests. Considered are individual and group, verbal and non-verbal, criterion-referenced, competency and performance-based tests. Diagnosis of particular children with serious learning problems in the area of basic skills; perceptual-motor; speech and language; writing; and the affective domain, will be studied.

ED 210 FUNDAMENTALS OF VOCATIONAL EDUCATION (3) Organized in a competency based approach to provide a practical foundation for designing, organizing, and supervising classroom and shop learning activities. Includes videotaped review of microteaching lessons, strategies for evaluating and controlling student performance, procedures for utilizing effective advisory committees and a thorough review of the ten approval factors which govern vocational-technical programs. Also covers theories and techniques of various instructional methodologies.

ED 211 TEACHING METHODS IN VOCATIONAL EDUCATION (6) Covers theories, techniques of instruction, use of audio visual equipment, preparing lesson plans for class or unit, and evaluation of student learning.

ED 212 MANAGEMENT OF THE VOCATIONAL EDUCATION ENVIRONMENT (3) Shop, academic, related classroom and cooperative placement sites; safety, priority population, developmental psychology with focus on adolescent psychology, learning styles, and disciplines.

ED 214 SUPERVISED INTERNSHIP: VOCATIONAL EDUCATION (3) Supervised by a master teacher and monitored by a college instructor. Demonstration of the application of pedagogical skill. Prerequisite: Completion of the four pre-internship vocational instructor approved courses.

ED 220 SCHOOLS IN AMERICAN CULTURE (3) This prepracticum course is designed to stimulate creative and critical thinking about the nature and value of education. Participants will be introduced to the role of the teachers, learners, and schools in society. The characteristics of effective teaching and the relationship of technology and research to reacting will also be examined.

ED 221 EQUITY IN EDUCATION (3) Content and experiences will focus on both inter and intra-individual differences as well as group variables to be considered in teaching such as ethnic background, race, gender and developmental differences. Historical and current approaches for the education of those with handicapping conditions will be examined, as well as issues such as identification, placement, and evaluation. Special attention will be given to the prospective value of Individualized Educational Programs and education in the "least restrictive environment."

ED 240 OCCUPATIONAL AND TRAINING INFORMATION (3) The study of the history of occupations, work classification, job families and job descriptions, current occupational information and the Dictionary of Occupational Titles.

ED 256 CONTEMPORARY ISSUES IN SECONDARY EDUCATION (3) Analysis of major social forces affecting secondary education, including contemporary social, cultural, economic, and political issues. Exploration of various underlying educational policies.

ED 303 EARLY LITERACY AND READING (3) Provides the prospective teacher with an introduction to early literacy and reading program development. The course emphasizes skills related to emergent literacy, word recognition, comprehension, critical and oral reading, continuous evaluation of developmental reading skills, diagnostic teaching, and individualized instruction of reading in early childhood and elementary education. Prerequisite: ED 319.

ED 304 READING AND CREATIVE WRITING FOR THE CLASSROOM TEACHER (3) Designed both to aid the teacher in his/her awareness of creative expression and to provide a better understanding of basic objectives, techniques and means of fostering creativity within the actual classroom. A wide variety of creative writing experiences will be explored, identified, and applied. Creating classroom climate conducive to creativity and establishing learning centers will also be major goals of this course.

ED 305 LITERATURE AND THE LANGUAGE ARTS (3) Provides the prospective teacher with an introduction to literature/language arts programs. Emphasis is on the communication skills of listening, speaking, reading, and writing. The relationship of children's literature in the total language arts program in early childhood and elementary education is presented. Prerequisite: ED 319.

ED 306 ELEMENTARY CURRICULUM AND INSTRUCTION (3) Elementary Curriculum and Instruction Students will be introduced to the major concepts of the elementary school social

studies, science, mathematics, the arts, physical education/health, and drug and substance abuse curricula. The relationship among the elementary disciplines will be demonstrated in the development of a unit of work and learning center activities. The application of the curricular concepts and unitary procedure will be demonstrated in a required thirty hour (minimum) field experience. Prerequiste: ED 319.

ED 307 PHILOSOPHY OF EDUCATION (3) Builds a knowledge of the tools of critical thinking which include an understanding of the uses and misuses of logic and language both in general and specifically applied to educational concepts, as well as an understanding of the major philosophical assumptions regarding the question; What is Man? posed by the representative philosophers who have had a major impact on American Education Practice.

ED 308 EARLY CHILDHOOD CURRICULUM (3) Curriculum and principles of early childhood education for children with and without special needs are identified for students through lectures supported by observations and demonstrations. Curricular adaptations and relationships among the disciplines taught in early childhood are presented. A thirty hour (minimum) field placement is required. Prerequisite: ED 220, ED 221, PY 101.

ED 309 CHILDREN'S LITERATURE (3) This course is designed to provide teachers with a background of the major objectives and purposes for children's literature in today's classroom. Major emphasis will be given to a review of various types of children's literature, ways to share literature effectively with children, the use of media to encourage more reading, and to the establishment of library centers within the classroom setting. Areas of specialization such as award-winning books, key illustrators, poetry, and traditional literature will also be included.

ED 310 SEMINAR: TEACHING DESIGNS IN EARLY CHILDHOOD (3) The seminar is designed to examine considerations in structuring learning experiences and environments for young children. Included will be research studies of Piaget, Skinner, and Maslow and their influence on the teaching designs of curriculum to meet the needs of young children, including those at risk. Specific attention will be given to reviewing and studying early childhood demonstration programs that have been designed to meet the needs of the 9 mos-3 year old, as well as 4-7 year old children with a variety of handicapping conditions.

ED 311 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Requires students to examine actively the basic principles underlying Social Studies. It requires that students become aware of unifying concepts and generalizations related to the realities of how people live and interact. Examination of traditional and current Social Studies projects is a matter of concern. Concurrently, production of materials and use of procedures promoting apt combinations of cognitive affective and psychomotor behaviors are expected.

ED 317 ANALYSIS AND CORRECTION OF READING DISABILITIES (3) Designed to acquaint students with the procedures, techniques, and materials used in diagnosing, prescribing, and remediating individual reading disabilities. Instruction in theoretical background is applied to actual cases with disabled readers. Prerequisite: ED 303 or permission of instructor.

ED 318 READING IN THE CONTENT AREAS (3) Approaches reading as a tool in the content areas of the curricula. All of the major subject matter areas will be explored. The general reading abilities involved in these areas as well as the specialized reading needs will be examined. The objectives, techniques, procedures, and material will be identified and utilized. Designed for teachers in the intermediate and secondary levels.

ED 319 EDUCATIONAL PLANNING & EVALUATION:EARLY CHILDHOOD AND ELEMENTARY (3) Introduces educational planning procedures including: modes of teaching, classroom interaction strategies, media, grouping for instruction, classroom interaction behaviors, Individual Educational Plans, community resources, and parent-teacher conferencing. The course also emphasizes the selection and development of evaluation measures to assess student learning. The application of methodology, concepts, and skills and the ability to modify teaching strategies will be demonstrated in a required thirty hour (minimum) field experience. Prerequisites: ED 220, ED 221 and PY 202.

ED 320 PRINCIPLES OF TEACHING II (2) Long range planning through units and learning centers will be the focus of learning. Through these, students will learn about recent classroom developments and the roles of grouping discipline and classroom management. Health and physical education as they relate to the elementary school population will be studied. Prerequisite: ED 319 or permission of instructor.

ED 323 FIELD EXPERIENCE I (1) This is a pre-practicum to be taken concurrently with Principles of Teaching I. Students will apply the learnings and principles in a field setting. Students will use these opportunities to establish their competencies required for certification. Prerequisite: Junior status or permission of instructor.

ED 324 FIELD EXPERIENCE II (1) This is a pre-practicum to be taken concurrently with Principles of Teaching II. Students will apply the learnings and principles learned in a field experience setting. Students will use this opportunity to establish their competencies required for certification.

ED 326 LISTENING AS AN ASPECT OF READING (3) The purpose of this course is to acquaint the teacher with listening as a vital area of the total language arts program. Listening as one of the major tools in learning and communication is explored. The course concerns itself with the nature of listening, listening in the total curriculum, and creating an environment for effective listening development. The course will also provide opportunity to develop resource materials such as tapes and games which would be applicable to practical teaching situations.

ED 331 CREATIVE DRAMATICS IN A READING INSTRUCTIONAL PROGRAM (3) Deals with activities related to creative dramatics which can be integrated into literature and reading programs. Competence in using drama and in actual performance through assignments and projects that focus on creative dramatics, improvisations, role-playing, poetry, choral verse, and the adaptation of basal reader stories into play form.

ED 334 WORD ANALYSIS SKILLS IN READING (3) Prospective reading teachers will acquire the skills of phonetic and structural analysis of words in order to teach independent word attack skills in reading. Designed to give each student experience in reading requirements and skills in teaching reading.

ED 335 INDIVIDUALIZED INSTRUCTION IN READING (3) Students study and develop techniques for implementing an individualized program in reading for the elementary grades. Included are methods of diagnosing and assessing levels of competency of children, procedures for working in an individualized program and methods of evaluating progress and keeping records. This course examines the values of various approaches to individualized instruction such as programming, performance contracting and media oriented learning centers. Prerequisite: ED 303 or permission of instructor.

ED 336 PRACTICUM EARLY CHILDHOOD K-3 (First 8 weeks) (6) A minimum of 150 clock hours of supervised student teaching experience in grades K-3. Guidelines for evaluation are identified in the Westfield State College Student Teaching Handbook.

ED 337 PRACTICUM EARLY CHILDHOOD K-3 (Second 8 weeks) (6) A minimum of 150 clock hours of supervised student teaching experience in grades K-3. Guidelines for evaluation are identified in the Westfield State College Student Teaching Handbook.

ED 338 PRACTICUM: ELEMENTARY (1-6) (First 8 weeks) (6) A minimum of 150 clock hours of supervised student teaching experience in grades 1-6. Guidelines for evaluation are identified in the Westfield State College Student Teaching Handbook.

ED 339 PRACTICUM: ELEMENTARY (1-6) (Second 8 weeks) (6) A minimum of 150 clock hours of supervised student teaching experience in grades 1-6. Guidelines for evaluation are identified in the Westfield State College Student Teaching Handbook.

ED 342 SUPERVISION OF VOCATIONAL SCHOOLS (3) Discussion of various aspects of the vocational school program including co-curricular activities, scheduling, fiscal procedures, legal responsibilities, public relations, systematic environment, and other areas of relationships and interaction. Emphasis will be placed upon the interdependence of the component parts of modern vocational schools.On-site visits to selected occupational schools, research projects (group and individual), and evening discussion panels with members representing various parts of a school system will be part of the course requirements.

ED 343 APPRAISAL AND EVALUATION TECHNIQUES IN OCCUPATIONAL EDUCATION (3) Appraisal of the development and significance of educational measurements as they relate to the vocational school student. Emphasis on uses and limitations of standardized tests; construction, validation and limitations of classroom tests; analysis, interpretation, and utilization of test results.

ED 344 CURRICULUM DEVELOPMENT IN OCCUPATIONAL EDUCATION (3) Preparing valid job-related curriculum content to include cognitive, psychomotor and affective skills as well as techniques and resources for implementing a curriculum using competency based vocational education materials.

ED 345 LABOR LAWS RELATING TO OCCUPATIONAL EDUCATION (3) Designed to augment the participant's understanding of the legal environment affecting students. Emphasis will be on laws affecting all teachers as well as on particular aspects of law (Torts, Negligence, National Apprenticeship Rules, Chapter 707, State Legislation, etc.) that relate especially to the participants.

ED 347 PRINCIPLES AND PRACTICES OF OCCUPATIONAL GUIDANCE (3) The vocational guidance process in both the elementary and secondary public schools will be studied. Approaches include counseling, group guidance and class instruction, the use of standardized tests and interest inventories, and cooperation with families, employers and other agencies. Phrased especially for Vocational Education Students.

ED 349 INTERPERSONAL RELATIONS AND CONFERENCE LEADERSHIP (3) An examination and analysis of interpersonal and group relations. An appraisal of the processes which produce greater self-awareness, heightened sensitivity to others, and improved human relations in classroom practice. Emphasis is placed upon learning to deal with individuals and groups with greater understanding and skill.

ED 350 ORGANIZATION OF EARLY CHILDHOOD SETTINGS (3) An introductory course in the organization and implementation of pre-school curriculum, i.e. private-public-Head Start and Montessori programs for the very young child. Significant topics included in the course are: characteristics and stages of development of the normal and special needs young child, the study of the learning theories appropriate to the readiness skills of the pre-schooler and the examination of the curriculum programs integrating subject matter, i.e. reading, communication (oral and written), art, music, math, science, health and physical education. Participants will be expected to prepare a learning kit or appropriate activities for the pre-schooler in three (3) skill areas.

ED 352 EDUCATIONAL PLANNING AND EVALUATION: MIDDLE SCHOOLS (3) Provides preparation for direct school experience at the middle level. Lesson plans, unit structures, methods and techniques of teaching, classroom management, test construction, interpretation and usage, the standards for provisional certification, form the basis of this course. Thirty hours of field experience is required. Prerequisites: ED 220 and 221.

ED 353 EDUCATIONAL PLANNING AND EVALUATION: SECONDARY SCHOOLS (3) Provides preparation for direct school experience at the secondary level. Lesson plans, unit structures, methods and techniques of teaching, classroom management, test construction, interpretation and usage, the standards for provisional certification, form the basis for this course. Thirty hours of field experience is required. Prerequisities: ED 220 and ED 221.

ED 354 EDUCATIONAL PLANNING AND EVALUATION: MIDDLE AND SECONDARY SCHOOLS (3) Provides preparation for direct school experience at the secondary level. Lesson plans, unit structures, methods and techniques of teaching, classroom management, test construction, interpretation and usage, the standards for provisional certification, form the basis for this course. Thirty hours of field experience is required. Prerequisites: ED 220 and ED 221.

ED 355 PRACTICUM IN COMMMUNICATION AND PERFORMING ARTS (6) A minimum of one hundred and fifty clock hours of supervised student teaching under the joint supervision of an experienced cooperating practitioner and college supervisors from the English and Education Departments.

ED 359 CURRICULUM AND INSTRUCTION: MIDDLE SCHOOL GENERALIST (3) A developmental approach to the conceptual structure of modern middle school curriculum design and implementation. Curriculum organization and the forces affecting it will be considered. Students will be introduced to the major concepts of middle school curricula in social studies, science, mathematics, art and music, physical education/health, and drug and substance abuse. The relationship among the middle school disciplines will be demonstrated in a 30 hour required field experience at the middle school level. Prerequisites: ED 220, ED 221, and PY 203

ED 360 COMMUNITY SERVICE PLACEMENT (6) Involves eight or sixteen weeks of field work experience in selected area agencies. The work is related to the occupational interests of the student but does not lead toward teacher certification. Placement provides an opportunity for the student to apply, test, evaluate and integrate in a responsible professional activity the knowledge, attitudes and skills learned in the classroom.

ED 364 PRACTICUM: MIDDLE SCHOOL (6) A minimum of one hundred fifty clock hours of supervised student teaching in a selected middle school under the joint supervision of an experienced cooperating practitioner and college supervisor. Prerequisite: Permission.

ED 366 PRACTICUM: MIDDLE AND SECONDARY SCHOOL (6) A minimum of one hundred fifty clock hours of supervised student teaching in a selected middle school under the joint supervision of an experienced cooperating practitioner and college supervisor. Prerequisite: Permission.

ED 367 IDENTIFICATION, ASSESSMENT, PLACEMENT, AND PROGRAMMING IN SPECIAL EDUCATION (Severe) (3) Curriculum resources, methods and materials for children with severe special needs are developed on the basis of on-going diagnosis.

ED 368 IDENTIFICATION, ASSESSMENT, PLACEMENT AND PROGRAMMING IN SPECIAL EDUCATION (Young Child with Special Needs) (4) Curriculum resources, methods and materials for young children (ages 3-7) with special needs are developed on the basis of on-going diagnosis.

ED 369 PRACTICUM: SECONDARY SCHOOL (6) A minimum of one hundred fifty clock hours of supervised student teaching in a selected secondary school under the joint supervision of an experienced cooperating practitioner and college supervisor. Prerequisite: Permission.

ED 370 SPEECH AND LANGUAGE PROBLEMS OF THE SPECIAL NEEDS CHILD (3) Normal speech and language expectancies, problems of the special needs child in language acquisition, speech and hearing mechanisms. Speech and language pathologies, their incidence and etiology, Regulations of "766" and "94-142" regarding speech and language habilitation of difficulties.

ED 371 IDENTIFICATION, ASSESSMENT, PLANNING AND PROGRAMMING (MODERATE) (3) Curriculum resources, methods and materials for children with moderate special needs are developed on the basis of on-going diagnosis.

ED 373 CLINICAL EXPERIENCE (Moderate) (3) Advanced students are offered guided practicum experiences in selected schools for application of the theoretical foundations of the diagnostic-prescription approach to teaching pupils with moderate special needs. Each student is required to prepare an I.E.P. for a special needs pupil.

ED 375 COMPREHENSIVE SERVICES IN SPECIAL EDUCATION (3) Home, school and community influences are analyzed in family adjustment to the presence of a handicapped child. Family reactions are considered in behavioral differences among children with various degrees of disability. Emphasis is given to guidance skills and knowledge needed by teachers and other professional workers in the field of Special Education.

ED 376 STUDENTS WITH EMOTIONAL/DEVELOPMENTAL DISABILITIES (3) A developmental disability is a delay or failure to progress through the normal developmental milestones of childhood. The purpose of this course is to explore educational, social and legal issues that affect the opportunities of developmentally disabled individuals. Educational assessment and programming will focus on the developmental domains of motor, psychosocial, communication, cognitive functioning. A continuum of educational and community options will be described in order to acquaint the student with the least restrictive options needed to promote the growth of the developmentally disabled.

ED 377 STUDENTS WITH SPECIFIC LEARNING PROBLEMS (3) Introduction to the history and current practices in the diagnosis and remediation of learning disabilities, major theories of etiology, commonly used assessment instruments, and remedial materials and methods. Research findings, issues and controversies in the field will be discussed.

ED 378 CLASSROOM MANAGEMENT: STUDENTS WITH BEHAVIORAL/EMOTIONAL PROBLEMS (3) Psychoeducational assessment, identification, choice of intervention and management of children with special needs; behavioral difficulties, are main areas of study. The home, school, and community are considered in relation to the child's mental health. Prerequisite: ED 220, ED 221, either ED 352, ED 353, ED 354.

ED 381 EARLY INTERVENTION FOR YOUNG CHILDREN WITH SPECIAL NEEDS (3) The purpose of this course is to help students to gain an awareness of how early identification of handicapping or potentially handicapping conditions, along with appropriate remediation measures, can be the most beneficial way to help children to develop. The course will be divided into four main areas of study: rationale for early intervention and related legislation; research; casefind, screening and diagnosis; and intervention strategies and programs. Although the amount of the time spent in each area of study may vary, each area is of great importance in developing an understanding of the field.

ED 382 CLINICAL EXPERIENCE IN SPECIAL EDUCATION YOUNG CHILD (3) Advanced students are offered guided practicum experiences in selected schools, for application of the theoretical foundations of the diagnostic-prescription approach to teaching young children with special needs. Each student is required to prepare an I.E.P. for a special needs child (ages 3-7 years).

ED 385 DEVELOPING AND ADMINISTERING COMMUNITY BASED RESOURCES (3) Focuses upon the procedures and programs needed for providing an easier transition along the continuum (from institutions to independence) for handicapped individuals. Various options for living, working and schooling are discussed. This course stresses the development and management of resources that aid in "communitization".

ED 386 EDUCATION AND TRAINING OF THE SUBSTANTIALLY HANDICAPPED CHILD (3) This course is a systematic study of neurophysiological deviations that cause severe disabilities. Emphasis is also placed on method and techniques for increasing motivation and improving performance. Students will develop an understanding of concepts and procedures necessary to write cooperatively with medical professionals, physical therapists, occupation therapists, communication specialists and parents.

ED 387 CLINICAL EXPERIENCE IN SPECIAL EDUCATION SEVERE (3) Advanced students are offered guided practicum experiences in selected clinics or agencies and residential institutions, for application of the theoretical foundations of the diagnostic-prescription approach to teaching pupils with severe special needs. Each student is required to prepare an I.E.P. for a severe special needs individual.

ED 388 PRACTICUM: YOUNG CHILD WITH SPECIAL NEEDS (6-12) A minimum of 300 clock hours (12 cr.) of supervised student teaching experience in an approved setting for young children with special needs.

ED 389 PRACTICUM: SEVERE SPECIAL NEEDS (6-12) A minimum of 300 clock hours (12 cr.) of supervised student teaching experience in an approved setting for students in severe special needs.

ED 395 CLINICAL EXPERIENCE IN READING (3) Advanced clinical opportunities to work with pupils/students, individually and in small groups, in corrective reading instruction, remedial reading instruction, and developmental reading instruction at various settings.

ED 396 SEMINAR RECENT DEVELOPMENTS: COMPUTERS IN EDUCATION (3) This course requires no previous experience with computers and will be comprised of three major components: (a) an introduction to software tools for teachers, (b) exposure to and analysis of commercially available educational software and hardware, (c) an analysis of both practical and theoretical issues related to the use of microcomputers in education.

ED 397 PRACTICUM: MODERATE SPECIAL NEEDS (6) A minimum of 150 clock hours of supervised. student teaching experiences with students having moderate special needs.

ED 399 INDEPENDENT STUDY (3-9) Education majors are allowed to receive up to a maximum of nine academic credits, at the rate of three credits per semester, for engaging in independent study. Each study is taken as a part of a student's regular course load only. The student engaged in independent study will select and develop topics in the field of Education and related fields in cooperation with a professor from the Education Department, and the approval of the chair.

ENGLISH

English majors may choose from four distinct concentrations, each leading to a Bachelor of Arts degree: Communications, Journalism, Literature, and Theatre. Students may earn teaching certificates under two of these concentrations in Literature/Secondary Education and Theatre Arts/Education. Non-majors may also include in their programs one or more of the department's five minors: Communications, Journalism, Literature, Theatre, and Writing. Department courses afford opportunities for developing the crucial verbal skills of analysis, synthesis, comprehensive and critical reading, extended and incisive writing, and clear thinking. In addition, English study provides, through rigorous analysis of major literary works, a unique experience in recognizing, evaluating, and articulating human values, motives, and qualities.

Westfield State College offers students of English a fully equipped professional theater, access to the campus television and radio station, a weekly college newspaper staffed chiefly by journalism students, the latest word processing equipment, and a literary magazine publishing outstanding student writing. A Writing Coordinator offers seminars and individualized self-help exercises. A popular and successful feature in the department is its internship program through which students gain valuable on-the-job experience with television and radio stations, newspapers, a professional theater, social services agencies, and regional offices of national corporations.

Recent graduates majoring in English have accepted positions as teachers, reporters and editors, television staff members, theater directors, and corporate public relations officers. Some graduates have entered management training programs; others have gone on to graduate or professional schools.

FOR ALL ENGLISH MAJORS

1. A minimum of 39 credits is required within the English major.
2. Completion of at least two college semesters of one foreign language is required, unless during high school the student has (a) completed three years of study of one foreign language, or (b) completed two years of study in each of two foreign languages. A student may also satisfy the foreign language requirement by passing a proficiency examination designed and administered either nationally or locally.
3. Students who transfer into the English Major from other institutions must complete 21 hours in English at Westfield State College.

REQUIREMENTS FOR LITERATURE CONCENTRATION

The following courses are required of English majors, if they concentrate in Literature.
1. EN 210, British Literature to 1603, and either EN 211, British Literature, 1603-1780 or EN 212, British Literature Since 1780 (6).
2. EN 216, Nineteenth-Century American Literature and EN 217, Modern American Literature (6).
3. EN 317, Shakespeare: Tragedies and Histories (3).
4. One course in a major figure or period (3).
5. EN 348, History of the English Language, or EN 349, Structure of Modern English (3).
6. EN 300, Development of the Novel (3).
7. A 200 or 300-level writing course (3).

The remaining 12 hours of electives are chosen from 300-level English courses. EN 211, British Literature, 1603-1780, or EN 212, British Literature Since 1780, if not taken as a requirement, is the only 200-level course that may be used as an elective toward the major.

REQUIREMENTS FOR TEACHING ENGLISH IN MIDDLE AND SECONDARY SCHOOLS

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach English at the Middle or High School levels must complete the following:

All courses for the English major with the literature concentration
EN 221 World Literature to 1750 (3)
EN 106 Principles of Grammar (1)
The 18-credit secondary education sequence, described in the Education Department listings
EN 350 (EN 351) Methods of Teaching English in the Middle (Secondary) School (3)

EN 338 LIterature and the Adolescent, though not required, is recommended as an elective.

To be recommended for EN 350 or EN 351 Methods of Teaching English and the teaching practicum, students must have permission of the program coordinator.

REQUIREMENTS FOR COMMUNICATIONS CONCENTRATION

Those students who pursue a Communications concentration must meet the general requirements for all English majors, including EN 210, British Literature to 1603 and EN 211, British Literature, 1603-1780; or EN 212, British Literature Since 1780; Nineteenth-Century American Literature and Modern American Literature; Structure of Modern English or History of the English Language; and two 300-level English courses.

The remaining 18 credits (for a total of 39) may be selected from the following courses, with at least 2 courses chosen from each of the 3 major headings.

Critical Communication:
- EN 367 Film Theory and Criticism (3)
- EN 381 Television Drama (3)
- EN 391 Special Studies in Film (3)
- EN 393 History and Development of the Motion Picture (3)

Written Communication:
- EN 275 Journalism I (3)
- EN 346 Creative Writing (3)
- EN 377 Feature Writing (3)
- EN 378 Writing for TV (3)
- EN 388 Special Topics in Writing (3)
- EN 392 Business and Technical Writing (3)

Oral Communication:
- EN 103 Speech (3)
- EN 250 Oral Interpretation (3)
- EN 395 Speaking on Radio and TV (3)

EN 380 Practicum in English (3-12 credits) is also available to seniors who wish to gain some career experience through an internship while earning some additional degree credit.

REQUIREMENTS FOR THEATRE CONCENTRATION AND THEATRE ARTS/EDUCATION

This concentration serves as preparation for those students who wish to prepare for careers in professional or educational theatre. Students concentrating in Theatre must complete at least 39 hours in Theatre Arts courses. Required courses are:

- EN 251 Theatre Arts (3)
- EN 317 Shakespeare: Tragedies and Histories (3)
- EN 352 Acting I (3)
- EN 353 Theatre Workshop (6)
- EN 354 Vocal Techniques for the Stage (3)
- EN 355 Directing I (3)
- EN 357 Acting II (3)
- EN 365 Dramatic Criticism (3)
- EN 366 Dramatic Literature (3)
- EN 369 History of Theatre Arts (3)

Electives: (a minimum of 2 courses from among the following)
[EN 380 and EN 399 are offered only after minimum electives have been completed.]

- EN 318 Shakespeare: Comedies and Romances (3)
- EN 321 Irish Theatre (3)
- EN 336 Contemporary Trends in Dramatic Literature (3)
- EN 356 Stagecraft and Design (3)
- EN 362 Research Seminar in Theatre (3)
- EN 364 American Drama (3)
- EN 367 Film Theory and Criticism (3)
- EN 368 Directing II (3)
- EN 370 Modern Drama (3)
- EN 371 Play Writing (3)

EN 378 Writing for TV (3)
EN 380 Practicum Internship (3-12)
EN 381 Television Drama (3)
EN 391 Special Studies in Film (3)
EN 393 History and Development of the Motion Picture (3)
EN 399 Independent Study (3)

THEATRE ARTS/EDUCATION

Those students who wish to teach courses in drama, speech and debate, and direct school performances in grades K-12 take the following courses:

HISTORY, CRITICISM, AESTHETICS
EN 104 Introduction to Theatre (3)
EN 369 History of Theatre Arts (3)
EN 365 Dramatic Criticism (3)
EN 366 Dramatic Literature (3)
one of the following:
EN 317 Shakespeare: Tragedies and Histories (3)
EN 364 American Drama (3)
EN 370 Modern Drama (3)
EN 387 World Drama (3)

STAGECRAFT, PRODUCTION, PERFORMANCE
EN 251 Theatre Arts (3)
EN 352 Acting I (3)
EN 353 Theatre Workshop (3)
EN 356 Stagecraft and Design (3)

Students are also required to take three of the following courses, with at least one course from three of the four different performance groupings:

A. Drama
EN 354 Vocal Techniques for Stage (3)
EN 355 Directing I (3)
EN 357 Acting II (3)
EN 368 Directing II (3)
EN 371 Play Writing (3)

B. Films and Television
EN 378 Writing for Television (3)
EN 381 Television Drama (3)
EN 391 Special Studies in Film (3)
EN 393 Historical Development of Motion Pictures (3)

C. Speech
EN 103 Speech (3)
EN 250 Oral Interpretation (3)
EN 395 Speaking on Radio and Television (3)
EN 361 Argumentation and Debate (3)

D. Dance
PE 215 Dance Fundamentals (3)

Students are also required to take the following educational methods courses:
ED 220 Schools in American Culture (3)
ED 221 Equity in Education (3)
One of the following:
PY 202 Child Psychology
PY 203 Adolescent Psychology
As well as:
ED 319 (ED 352, ED 353, Ed 353) Educational Planning and Evaluation:
Elementary (Middle, Secondary, Middle and Secondary) Schools (3)
EN 363 Methods of Teaching Theatre Arts (3)
ED 355 Practicum in Communication and Performing Arts (6)

Also recommended for this certificate are ED 304, Reading and Creative Writing for the Classroom Teacher, and ED 311, Creative Dramatics in a Reading Instructional Program.

REQUIREMENTS FOR THE JOURNALISM CONCENTRATION

Those students who elect the Journalism concentration must meet the general requirements for all English majors and complete the following required courses: British Literature to 1603; and British Literature, 1603-1780, or British Literature Since 1780; Nineteenth-century American Literature; Modern American Literature; History of the English Language OR Structure of Modern English; and two 300-level English courses.

The remaining 24 credits (for a total of 39) are to be chosen from the following:
Required (15)

EN 231 History of Journalism (3)
EN 275 Journalism I (3)
EN 375 Journalism II (3)
EN 377 Feature Writing (3)
EN 394 News Editing (3)

Electives: (students choose 9 hours from the following courses)

EN 347 Advanced Writing Techniques (3)
EN 378 Writing for Television (3)
EN 379 News Media Seminar (senior year only) (3)
EN 383 Critical Writing in Journalism (3)
EN 384 Special Topics in Journalism (3)
EN 392 Business and Technical Writing (3)
EN 395 Speaking on Radio and Television (3)
MC 202 Introduction to Photography (3)
MC 301 Introduction to Television Production (3)
MC 309 Broadcast Journalism (3)

Students following the Journalism concentration should also join the staff of The Owl, the college newspaper, and participate in its activities for at least four semesters.

REQUIREMENTS FOR THE JOURNALISM MINOR

Students who wish to minor in journalism should join the staff of The Owl and participate in its activities for at least four semesters (transfer students see the Chair).

Students must take 18 hours from following courses to complete the minor:

EN 231 History of Journalism (required) (3)
EN 275 Journalism I (required) (3)
EN 375 Journalism II (required) (3)
EN 345 Advanced Writing Techniques (3)
EN 377 Feature Writing (3)
EN 378 Writing for Television (3)
EN 379 News Media Seminar (senior year only) (3)
EN 380 Practicum in English (3-12 credits, senior year only)
EN 383 Critical Writing in Journalism (3)
EN 384 Special Topics in Journalism (3)
EN 392 Business and Technical Writing (3)
EN 394 News Editing (3)
EN 395 Speaking on Radio and Television (3)
MC 202 Introduction to Photography (3)
MC 301 Introduction to Television Production (3)
MC 309 Broadcast Journalism (3)

REQUIREMENTS FOR THE LITERATURE MINOR

Students take 18 credits made up of the following courses:

EN 210 British Literature to 1603 (required) (3)
EN 211 British Literature, 1603-1780
or EN 212, British Literature Since 1780 (required) (3)
EN 216 Nineteenth-Century American Literature (required) (3)
EN 217 Modern American Literature (required) (3)
and two of the following:
EN 211 British Literature, 1603-1780 or EN 212, British Literature Since 1780 (3)
(whichever is not taken as a requirement)

EN 221 World Literature to 1750 (3)
EN 222 World Literature Since 1750 (3)
EN 317 Shakespeare: Tragedies and Histories (3)
Any 200 or 300-level writing course (3)

REQUIREMENTS FOR THE THEATRE MINOR

EN 353 Theatre Workshop (6). To be taken after any 12 credits offered under "Requirements for Theatre Concentration."

REQUIREMENTS FOR THE COMMUNICATIONS MINOR
(18 credits from the following courses with two courses chosen from each category)

Critical Communication
EN 367 Film Theory and Criticism (3)
EN 381 Television Drama (3)
EN 393 History and Development of Motion Pictures (3)
EN 391 Special Studies in Film (3)

Written Communication
EN 275 Journalism I (3)
EN 346 Creative Writing (3)
EN 377 Feature Writing (3)
EN 378 Writing for Television (3)
EN 388 Special Topics in Writing (3)
EN 392 Business and Technical Writing (3)

Oral Communication
EN 103 Speech (3)
EN 250 Oral Interpretation (3)
EN 395 Speaking on Radio and Television (3)

REQUIREMENTS FOR THE WRITING MINOR

Students take 18 credits from the following recommended courses, not necessarily in sequence:
EN 275 Journalism I (3)
EN 347 Advanced Writing Techniques (3)
EN 377 Feature Writing (3)
EN 378 Writing for Television (3)
EN 392 Business and Technical Writing (3)

and any one of the following:
EN 346 Creative Writing (3)
EN 371 Playwriting (3)
EN 375 Journalism II (Prereq. EN 275) (3)
EN 388 Special Topics in Writing (3)

PRACTICUM

Of special interest to English majors is the Practicum in English, EN 380. Through the Practicum, seniors can earn 3-12 college credits for on or off-campus work experience. Such experiences are often the beginning of lifetime vocational decisions.

COURSES

EN 099 FUNDAMENTALS OF WRITING (no credit; meets 3 hours weekly) In this course students will study and practice the fundamentals of clear writing, with emphasis on grammatically correct sentence structure and effective paragraphs. Students take this course to prepare for the essay writing in EN 101 English Composition I.

EN 100 LEARNING ENGLISH AS A SECOND LANGUAGE (0) Designed to teach English language skills to students whose native language is not English. A thorough study is made of the American English sound system, sentence patterns, vocabulary, transforms, and modification. In addition, students will have an opportunity to study American culture through language habits.

EN 101 ENGLISH COMPOSITION I (3) An intensive course in writing. Fundamentals of writing are stressed, including rhetoric, sentence structure, paragraph development, and the writing of complete essays. EN 101 must be taken during the first semester of the freshman year; it is a prerequisite for EN 102. STUDENTS MAY NOT DROP THIS COURSE.

EN 102 ENGLISH COMPOSITION II (3) An introduction to literature during which

types of fiction, drama and poetry are studied. Emphasis is on writing analytical essays on the literature. The techniques of the research paper are studied and a research paper is required. SUCCESSFUL COMPLETION OF THIS COURSE IS A PREREQUISITE FOR ALL 200 AND 300 ENGLISH COURSES OFFERED. EN 102 must be taken during the second semester of the freshman year. STUDENTS MAY NOT DROP THIS COURSE.

EN 103 SPEECH (3) A course that gives students an opportunity to practice the fundamental principles of oral communication. It includes experience in organizing and delivering various kinds of talks, participating in group and panel discussions,and evaluating speech habits. Voice quality, articulation and pronunciation are studied.

EN 104 INTRODUCTION TO THE THEATRE (3) Acquaints interested students with the origins and nature of drama, dramatic literature and, in general, with major historical periods of Western theatre. Moreover, the theory and practice of the theatre arts of play writing, acting, directing, set and lighting design, theatre architecture, costuming and makeup, technical production and theatre management will be studied and considered in the light of their creative and cultural impact on playgoers and playreaders, past and present.

EN 105 FRESHMAN ENGLISH SEMINAR (HONORS) (3) Designed as an EN 101 substitute for freshmen with high verbal ability and well-developed writing skills. Emphasis is on analysis and writing of thematically organized assignments with complexities well beyond those usually considered in EN 101. Permission of the Instructor.

EN 106 PRINCIPLES OF GRAMMAR (1) Designed for, but not limited to, students who have completed English Composition I but who need or want better understanding of, and improvement in, grammar, usage, and mechanics. Reviews standard English principles and practice in fundamental areas such as sentence types and structure, clauses, modification, case,agreement, and punctuation. Meets 75 minutes twice each week for 8 weeks.

EN 110 ENGLISH COMPOSITION II (Honors) (3) Designed as a substitute for EN 102 for students who have satisfactorily completed EN 105 or shown marked ability in EN 101. Focus on the critical and appreciative reading of fiction, poetry, and drama and on interpretive and analytical writing about literature at a level beyond that in EN 102. Techniques of research are discussed and practiced. Permission of the Instructor.

EN 200 WRITING WORKSHOP (1-3) Designed for students in all majors, the workshop will develop skills in rhetorical techniques and provide practice in specific types of expository writing appropriate to many disciplines.

EN 210 BRITISH LITERATURE TO 1603 (3) English literature from Beowulf through Shakespeare. The chronological development of English literature will be stressed. ** Required of all English majors except those concentrating in theatre.

EN 211 BRITISH LITERATURE, 1603-1780 (3) English literature from the early 17th century to the late 18th century (1780). The chronological development of English literature will be stressed.

EN 212 BRITISH LITERATURE SINCE 1780 (3) English literature from the Romantics (1780) to the 20th century. The chronological development of English literature will be stressed.

EN 213 MAJOR BRITISH WRITERS (3) Designed for non-English majors, the course consists of a study of the most prominent writers of English literature through representative selections. Prerequisite: EN 101 and EN 102.

EN 215 MAJOR AMERICAN WRITERS (3) Designed for non-English majors, the course consists of a study of the most prominent writers of American literature through representative selections. Prerequisite: EN 101 and EN 102.

EN 216 19TH CENTURY AMERICAN LITERATURE (3) Surveys the major figures of the century from Poe to James. Attention is directed toward the cultural and historical context of our literature. Required of all English majors except those concentrating in Theatre.

EN 217 MODERN AMERICAN LITERATURE (3) A Study of 20th century American literature in the light of significant social and literary trends. Featured are major authors from Dreiser to the present. Required of all English majors except those concentrating in Theatre.

EN 221 WORLD LITERATURE to 1750 (3) A study of western and non-western literary masterpieces that have shaped modern thought and culture. Selections range from the classics through the 18th century. Prerequisite: EN 101 and EN 102.

EN 222 WORLD LITERATURE SINCE 1750 (3) A study of western and non-western literary masterpieces from the 19th century to the present. Prerequisite: EN 101 and EN 102.

EN 223 THE BIBLE AS LITERATURE (3) An examination of the Bible's legends, folk tales, songs, and historical narratives in relation to classical mythology as seminal ideas and themes in English literature.

EN 224 BLACK AMERICAN LITERATURE (3) Critical study of the Black in American Literature from two vantage points: the new image of the Black in the works of major American writers, and the image of the Black and of Americans in work created by American Black writers.

EN 225 THE SHORT STORY (3) Extensive readings of short stories of various periods representing different countries. Special attention is given to the theme and form of each story.

EN 227 CONTEMPORARY LITERATURE (3) A study of various types of international literature since World War II and the influence of the period on such literature. Plays, different forms of fiction, and poetry are read and discussed.

EN 228 INTRODUCTION TO SHAKESPEARE (3) Designed for students who are not majoring in English, this course provides a basic knowledge of Shakespeare's dramatic forms, poetry, characterization, theatrical method, and insight into human nature. No student may receive credit for this course if credit is received for either EN 317 (Shakespeare I) or EN 318 (Shakespeare II). Prerequisite: EN 101 and EN 102.

EN 231 HISTORY OF JOURNALISM (3) An overview of journalism in the United States from the publication of the first newspaper in 1704 to the latest developments in electronic technology. The emphasis will be on major figures, institutions, and issues. The media's influence on American society will be examined.

EN 250 ORAL INTERPRETATION (3) Geared towards aiding those students interested in broadcasting, acting, or teaching careers. In an informal group setting, the student will pursue the heightening and sharing of his/her sensitivities in relation to a wide choice of written materials including drama, children's literature, documentaries, fiction, editorials, scripts, and poetry. At the same time, the course will concentrate on using and developing the full range of the voice as the vehicle to communicate the student's sensitivities and interpretations.

EN 251 THEATRE ARTS (3) Students will understand the collaborative artists of the theatre and become adept in creating plans, plots, and cues sheets. A course in analysis and organization.

EN 275 JOURNALISM I (3) An introduction to the technique of writing basic news stories. Students will also learn the basics of libel law and consider some of the ethical issues that arise in the practice of journalism. Students will pay close attention to models of professional writing in newspapers and news magazines.

EN 300 DEVELOPMENT OF THE NOVEL (3) A study of the novel as a literary form from the eighteenth century to the present. Emphasis will be on the shaping influences of the English novel of the 18th and 19th centuries. Among the works which may be included are those of Richardson, Fielding, Sterne, Austen, Eliot, Dickens, and Hardy. Twentieth-century innovations in the form will be considered through such writers as Joyce, Lawrence, and Faulkner. Novel theorists such as Flaubert, James, and Ortega may also be included.

EN 311 THE BRITISH NOVEL (3) A study of the development of the novel as a genre, its literary origins and its relationship to society. Readings begin with 18th-century novelists such as Defoe, Richardson, Fielding, Smollett, and Sterne and continue with 19th-century representatives: Austen, Dickens, Eliot, Hardy, and Conrad.

EN 313 MEDIEVAL ENGLISH LITERATURE (3) A study of the outstanding English literature of the eighth through fifteenth centuries. Poems, dramas, sermons, and other prose works will be studied in their literary and historical traditions perspectives.

EN 314 MILTON (3) A study of the man and his works including Paradise Lost and selected poetry and prose.

EN 315 17th CENTURY ENGLISH LITERATURE (3) Literature of this period from Donne and Jacobean drama to Marvell and Dryden.

EN 317 SHAKESPEARE: TRAGEDIES AND HISTORIES (3) A study of the tragedies and histories of Shakespeare including some consideration of his sources, his use of Elizabethan ideas, and his theatre.

EN 318 SHAKESPEARE: COMEDIES AND ROMANCES (3) A study of the comedies and romances, including some consideration of Shakespeare's sources, his use of Elizabethan ideas and his theatre.

EN 319 VICTORIAN LITERATURE (3) A study of literary responses to the impact of industrialism, science and modernism upon England's society and culture between 1830 and 1900. Readings include: Carlyle, Ruskin, Newman, Mill, Tennyson, Browning, Arnold, Dickens, Eliot.

EN 320 CHAUCER (3) Readings will include The Canterbury Tales and other selected works.

EN 323 THE AMERICAN NOVEL (3) Readings will include at least one major work of fiction by each member of a selected group of American novelists from the mid-nineteenth century to the present day.

EN 326 LITERATURE BY AND ABOUT WOMEN (3) Students will read literary works that exemplify stereotypical roles of women and the non-traditional roles that suggest changing perspectives and portrayals. The aims of the course are to gain better understanding of individual works from different genres and eras and to increase awareness of the diversity of literary presentations of women by women. Prerequisite: 200-level literature course.

EN 332 ROMANTIC LITERATURE (3) A study of the prose and poetry of the major writers of the Romantic Age.

EN 337 EUROPE AND WESTERN LITERATURE (FIELD STUDY) (3) A course designed to make the best use of firsthand experiences of the cultural legacy of Western Europe (performing arts, museums, historical sites, etc.) as a means of gaining further insight into the values, meanings, and styles of major literary works in Western literature. Students will combine a two- or three-week period of organized and supervised travel in Europe with subsequent attendance at seminars and development of papers to articulate their newly acquired understanding of particular literary works.

EN 338 LITERATURE AND THE ADOLESCENT (3) A detailed examination of the teaching of literature in the junior and senior high school, with emphasis on literature written expressly for adolescents. Attention will also be given to related matters: (1) the objectives and functions of literature study; (2) a pedagogical approach to major genres; (3) new approaches to literature study; (4) methods of teaching reading. In short, this course ought to aid teachers who wish to improve the way they teach literature to their students.

EN 339 LITERATURE OF THE 18TH CENTURY (3) Students will study Dryden, Johnson, Pope, Swift, and other major writers of the century.

EN 341 SEMINAR IN MAJOR BRITISH AND AMERICAN AUTHORS (3) A study of significant works by major literary figures. Each seminar will feature the works of one or two literary figures. The names of the figures will be announced in advance of the seminar and will be included in the course title.

EN 344 STUDIES IN SATIRE (3) A study of the development of English satire to the present, examining its gradual and skillful integration of three basic elements: invective, burlesque, and irony. To avoid simplistic judgments, the course will include readings in both theory and practice.

EN 346 CREATIVE WRITING (3) For qualified students interested in identifying and developing their special writing abilities. The techniques of writing fiction, drama, and verse will be studied.

EN 347 ADVANCED WRITING TECHNIQUES (3) Designed to develop formal writing ability on scholarly topics. Intensive library research will precede all writings. The goal of the course is to provide students with the research and writing skills necessary in the preparation of papers of publishable quality. Non-English majors will be encouraged to select subjects related to their fields of study.

EN 348 HISTORY OF THE ENGLISH LANGUAGE (3) A study of the development of English from its Indo-European origins to the present day, including an historical survey of changes in structure, sounds, and meaning.

EN 349 THE STRUCTURE OF MODERN ENGLISH (3) A study of the origin and development of the English language with emphasis on its present structure and usage.

EN 350 METHODS OF TEACHING ENGLISH IN THE MIDDLE SCHOOL (3) Preparation for teaching English in middle school through the following: study and observation of school structures, procedures, and teaching techniques; evaluation and selection of appropriate material for middle school students; preparation of lesson and unit plans; presentation of lessons; construction of tests; and evaluation of student writing. Prerequisite: 24 credits in the literature concentration of the major and permission of the instructor.

EN 351 METHODS OF TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Preparation for teaching English in the secondary school through the following: study and observation of school structures, procedures, and teaching techniques; evaluation and selection of appropriate material for secondary school students; preparation of lesson and unit plans; presentation of lessons; construction of tests; and evaluation of student writing. Prerequisite: 24 credits in the literature concentration of the major and permission of the instructor.

EN 352 ACTING I (3) An introductory course in the art and craft of the actor designed to make the student aware of personal outer and inner resources and to provide the student with work habits and tools to approach the actor's task with understanding.

EN 353 THEATRE WORKSHOP (6) Daily and intensive course for experienced students. No two workshops are quite alike; a recent workshop presented a new play each week for ten weeks. Prerequisite: Permission of the instructor.

EN 354 VOCAL TECHNIQUES FOR THE STAGE (3) Fundamentals of effective vocal production with special emphasis on interpretation.

EN 355 DIRECTING I (3) A study of the process of play direction and practice in the staging of scenes from the most common styles of plays.

EN 356 STAGECRAFT AND DESIGN (3) An extension of EN 251 with emphasis on the visual poetry of the theatre. Projects in building and painting scenery and considerations of lighting design. Prerequisite: EN 251.

EN 357 ACTING II (3) Working on a role, students apply the elements of Acting I to text, character analysis, and performance. Scenes and short works will be performed for class criticism. Prerequisite: EN 352.

EN 361 ARGUMENTATION AND DEBATE (3) Involves intensive study of persuasive argumentation debate procedures, and debate technique. Prerequisite: EN 103.

EN 362 RESEARCH SEMINAR IN THEATRE (3) Advanced research in theatre, including guided individual study of an approved topic. Members of the department will assist students whose special interests coincide with their specialized areas. Prerequisite: Permission of instructor.

EN 363 METHODS OF TEACHING THEATRE ARTS (3) Designed to prepare students seeking certification in Communication and the Theatre Arts. Skills in critical, technical, and performing areas will be applied in a series of model productions and classes for different school levels. Students will observe and assist teachers in the appropriate areas. Prerequisite: Permission of instructor only. Students must have completed EN 104, EN 369, and required courses in Stagecraft, Production and Performance area; they must also be recommended by their performance area instructors.

EN 364 AMERICAN DRAMA (3) Emphasis on the development of the dramatic form in America. Plays that are read and discussed demonstrate that there is a native American dramatic tradition and that experimentation is one of its characteristics. The plays also reflect significant development in and through culture.

EN 365 DRAMATIC CRITICISM (3) Students read major historic and modern drama criticism and apply critical principles in writing reviews of area productions.

EN 366 DRAMATIC LITERATURE (3) A critical evaluation of representative plays of the important periods of theatre, including outstanding plays of Greece, Italy, Germany, Sweden, Spain, Russia, England and the United States. An attempt is made to understand in depth the influence of the times upon the plays and authors studied. Prerequisite: EN 369.

EN 367 FILM THEORY AND CRITICISM (3) A study of the basics of film communication, various film modes and structure. A development of bases for evaluation of films according to communicative and aesthetic values will be a primary aim.

EN 368 DIRECTING II (3) Through directing of at least one one-act play, class criticism, and analysis, students will learn the role of director as interpreter, organizer, teacher, and stage manager. Prerequisite: EN 355.

EN 369 HISTORY OF THEATRE ARTS (3) History of Theatre Arts is an interdisciplinary and historical study of the development, continuum and evolution of theatre arts from primitive ritual and the Greek Classical period until the 1990s in a world cultural context. The primary aims of this course are to enhance the students' historical perspective and familiarity with conventions, styles and vocabulary, as well as to encourage students' critical appreciation of the theatre arts.

EN 370 MODERN DRAMA (3) Modern theatre is characterized by its international nature and its diversity of subject, style, and setting. This course will chronologically examine the development of modern drama from Ibsen to the present with specific attention to crucial social, political, and scientific influences and pivotal plays.

EN 371 PLAY WRITING (3) Introduction to the craft recommended for students with some experience in both creative writing and theatrical production.

EN 375 JOURNALISM II (3) An introduction to beat, specialized and advanced reporting. Students will try their hands at a variety of stories frequently assigned to reporters who have mastered the basic techniques of news writing. Prerequisite: EN 275.

EN 376 MODERN BRITISH AND AMERICAN POETRY (3) Reading and discussion of the foremost English and American poets of the 20th century. Special attention is given to the experimental forms and the modern thought of the poetry.

EN 377 FEATURE WRITING (3) An introduction to writing feature stories for newspapers and magazines. Students will write a variety of newspaper features. They will also prepare and send a query (story proposal) to a magazine and write the story upon which the query is based. Prerequisite: EN 275 or permission of instructor.

EN 378 WRITING FOR TELEVISION (3) Shows the student how to write for various aspects of this medium including creative public service announcements, educational documentaries, newscasts, promotional material, and copywriting in general. Students will write their own scripts utilizing actual professional script models. At least one field trip will be made to a professional studio.

EN 379 NEWS MEDIA SEMINAR: CONCEPTS AND ISSUES (3) A seminar in which participants will conduct an analysis of American mass communications; specifically, an examination of the development of news media and an evaluation of its control. Various components of the news media (wires, syndicates, networks, newspapers, magazines and books, radio and television) will also be evaluated as will their news coverage of such areas of public interest as government, violence and crime, national security and war, minorities and women, and specialized news. Prerequisite: Journalism II and consent of the instructor.

EN 380 PRACTICUM IN ENGLISH (3-12) A practical internship program for senior English majors who want to gain real experience in on-the-job training such as theatre, television, radio, report writing, news writing, insurance underwriting, education, editing, public relations, and advertising. Students will participate for a stipulated period under professional supervision and will be periodically observed by college faculty.

EN 381 TELEVISION DRAMA (3) Because television actually has its own unique drama form and technique in contrast to those plays written for the theatre, this course will examine the various differences and the specific challenges for the television playwright. The student will study some of television's most critically acclaimed plays from the 1950's to the present. Included will be the works of such television dramatists as Paddy Chayefsky, Reginald Rose, Rod Sterling, Robert Crean, Ronald Ribman, Stanley Gray, and Loring Mandel. The original television scripts will be studied from teleplay anthologies now available in paperback. Prerequisite: six credits of literature courses.

EN 384 SPECIAL TOPICS IN JOURNALISM (3) An introduction to or an examination of journalistic writing and journalistic issues not dealt with in the basic curriculum. Past topics have included the new journalism writing for the editorial page and the first amendment. Prerequisite: EN 275 or permission of instructor.

EN 387 WORLD DRAMA (3) This course deals mainly with discussion, interpretation and critical evaluation of selective texts from the world's drama (from the Greeks to the present) emphasizing genres and periods. Consideration will also be given to the ideas, structures, styles, and techniques of dramatic literature.

EN 391 SPECIAL STUDIES IN FILM (3) Intensive study of significant individuals, groups, topics, or movements in the development of film.

EN 392 BUSINESS AND TECHNICAL WRITING (3) An advanced course to teach effective writing techniques for specific application to business and industry. The course gives students experience in preparing a variety of professional reports, letters, and other documents. Students will leave the course with a portfolio of writing samples.

EN 393 HISTORY AND DEVELOPMENT OF MOTION PICTURES (3) A study of the evolution of the motion picture as an international art form and social force. Students will make an analysis of form, technique and impact of film. A selected screening of representative film styles and content will be made.

EN 394 NEWS EDITING (3) An introduction to the duties of the copy editor. Students will work to refine the skills and art necessary to news selection, editing, headline writing, design and layout. Prerequisite: EN 275.

EN 395 SPEAKING ON RADIO AND TELEVISION (3) Directed toward those students interested in broadcasting careers or in heightening their awareness of the extensive contrasting oral approaches used in both media. Utilizing actual in-studio environs, individual instruction, and classroom involvement, the course will expose the student to all the varying speaking situations and the expertise needed. Some of the key areas to be covered will be general radio and television announcing and the differences between the two, interviewing style and techniques, narration, panel discussions, talk programs, newscasting and sportscasting.

EN 397 SPECIAL TOPICS IN LITERATURE (3) Focuses on a specific period, genre, writer, or group of writers, chosen in keeping with the instructor's field of specialization and in response to student interest. Prerequisite: a 200-level literature course.

EN 399 INDEPENDENT STUDY (3-6) Independent work in a field of special interest in either literature or language not covered by our regular course offerings. The student will be assigned a faculty member qualified to supervise the independent study project. The student must apply to the department Chair at least one semester in advance of the one during which he/she engages in the study and the project must be approved by the Department Curriculum Committee.

FOREIGN LANGUAGES AND LITERATURES

The Department of Languages offers a sequence of courses of graduated difficulty in the languages of five groups which have influenced our civilization: French, German, Portuguese Italian and Spanish. Japanese I and II was offered during the 1989-90 academic year and pending approval, it will be offered every other year. In addition, we offer courses which introduce the student to the cultures of those peoples through lectures and readings in English. These courses are also part of the General Education core. From time to time other languages e.g. Chinese, Russian, Esperanto, have been offered for both credit and non-credit through the Division of Continuing Education.

The department offers the student the opportunity to gain a working knowledge of one or more languages through minor concentrations in French, German, Italian and Spanish. The minor consists of a minimum of eighteen credit hours including the 103 and 104 courses in each language. The major programs in French and Spanish require a minimum of thirty-six credit hours. These programs provide the student with a strong liberal arts education and an in-depth study of the language and cultural achievements of the French and the Spanish-speaking peoples.

The department also has a fully-accredited teacher training program in both Spanish and French, administered in conjunction with the Department of Education.

A working knowledge of another language provides opportunities in business and commerce, government and social services and in professional careers.

REQUIREMENTS FOR FRENCH AND SPANISH MAJORS

FRENCH MAJOR

Requirements: a minimum of 36 credit hours including

LF 103 French III	(3)
LF 104 French IV	(3)
LF 200 French Conversation	(3) *
LF 201 Readings in French Literature	(3) *
LF 202 French Composition	(3) *
LF 203 French Civilization	(3) *
LF 300 French Literature I	(3) *
LF 301 French Literature II	(3) *
plus at least 12 credits of French electives.	(12)

* Required for Certification in French. Additional requirements listed below.

SPANISH MAJOR

Requirements: a minimum of 36 credit hours including:

LS 103 Spanish III	(3)
LS 104 Spanish IV	(3)
LS 200 Spanish Conversation	(3) *
LS 201 Readings in Hispanic Literature	(3)
LS 203 Spanish Civilization	(3) *
LS 204 Spanish-American Civilization	(3) *
LS 300 Spanish Literature I	(3) *
LS 301 Spanish Literature II	(3) *
LS 307 Spanish-American Literature I	(3) *
LS 308 Spanish-American Literature II	(3) *
plus at least 6 credits of Spanish electives	(6)

* Required for Certification in Spanish. Additional requirements listed below.

CERTIFICATION FOR TEACHER OF FRENCH OR SPANISH (5-12)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach French or Spanish must complete the following:

All courses in the major marked with an asterisk (*), as noted above
French majors must also take LF 308 Contemporary French Civilization
12 additional credits in French or Spanish electives at the 200 or 300 level
LL 301 Phonetics
The 18-credit secondary education sequence, described in the Education Department listings
LL 300 Methods of Teaching Foreign Languages
ED 366 Practicum: Middle and Secondary School

Academic Policies for the Teacher Certification Program.

Students must attain the advanced level at the Oral Proficiency Interview to be eligible for practicum. The interview which conforms to the ACTFL guidelines is a test of an individual's functional foreign language speaking ability, and is given by trained members of the Department of Languages and Literatures. Any exceptions or alterations to the required Foreign Language education sequence must be approved by the department chair.

COURSES TAUGHT IN ENGLISH

LL 101 INTRODUCTION TO THE STUDY OF LANGUAGE (3) An examination of the procedures used in the study of the phenomenon of language; a study of the structure of the world's most spoken languages; a history of the Indo-European language family.

LL 300 METHODS OF TEACHING FOREIGN LANGUAGES (3) Study of various approaches and methods of teaching foreign languages from both a historical and pedagogical perspective. A pre-practicum course required for French or Spanish teaching certification.
Prerequisite: Permission of the instructor.

LL 301 PHONETICS (3) Origin and development of French/Spanish and the formation and discrimination of standard French/standard Spanish will be explained and practiced. Teaching of the sound system and patterns of stress, pitch, intonation and linking.

LE 101 FRENCH CULTURE (3) An introduction to the people and ideas which have shaped the culture of the French-speaking world. No prerequisite.

LE 102 GERMAN CULTURE (3) An introduction to the people and ideas which have shaped the culture of the German-speaking world. No prerequisite.

LE 103 ITALIAN CULTURE (3) An introduction to the people and ideas which have shaped the culture of the Italian-speaking world. No prerequisite.

LE 104 HISPANIC CULTURE (3) An introduction to the people and ideas which have shaped the culture of the Spanish-speaking world. No prerequisite.

FRENCH

LF 101 FRENCH I (3) The first course in the French language sequence. An introduction to the sounds and basic grammatical structures of standard conversational French. Stress on oral comprehension and speaking as well as the reading and writing of simple grammatical patterns. Vocabulary is limited to about 400-500 of the most used words. No prerequisite.

LF 102 FRENCH II (3) The second course in the French sequence. Stress on oral comprehension and speaking as well as the increased practice of reading and writing. Additional active vocabulary of 400-500 of the most common items. Prerequisite: one semester of college or one year of high school French.

LF 103 FRENCH III (3) The third course in the French sequence. Stress on oral comprehension, speaking, reading and writing about topics dealing with contemporary life in the French-speaking world. An additional active vocabulary of 400-500 new words.
Prerequisite: two semesters of college or two years of high school French.

LF 104 FRENCH IV (3) The fourth course in the French sequence. Continued emphasis on the four language skills with topics about contemporary life. Additional vocabulary of 400-500 new words. Prerequisite: three semesters of college or three years of high school French.

LF 120 INTENSIVE FRENCH I & II (6) A one semester course covering the material of both French I and French II. Emphasis on speaking and understanding the spoken language.

LF 121 INTENSIVE FRENCH III & IV (6) A one semester course covering the material of both French III and French IV. Emphasis on speaking and understanding the spoken language.

LF 200 FRENCH CONVERSATION (3) A course which enables the student to practice the vocabulary and the conversational patterns which have already been learned while expanding both vocabulary (300-400 new items) and self-expression. Prerequisites: LF 104 or the equivalent.

LF 201 READINGS IN FRENCH LITERATURE (3) Selected readings on an intermediate level. The goal is the development of the student's vocabulary and reading skills. Reading material will be drawn from various appropriate sources. Prerequisite: LF 104 or the equivalent.

LF 202 FRENCH COMPOSITION (3) A course which offers the student the opportunity to practice writing French. Assignments will include the writing of expository prose, personal and business letters. Prerequisite: LF 104 or the equivalent.

LF 203 FRENCH CIVILIZATION (3) An examination of the elements which have formed the culture of present-day society in the French-speaking world. Special attention will be paid to the people and ideas whose contributions embody the spirit of French culture. A working knowledge of French is required. Prerequisite: LF 104 or the equivalent.

LF 300 FRENCH LITERATURE I (survey) (3) A survey of French literature from the medieval era to the beginning of the Nineteenth Century; a critical analysis of selected works by the leading literary figures. Prerequisite: LF 201 or the equivalent.

LF 301 FRENCH LITERATURE II (survey) (3) A survey of French literature in the Nineteenth and Twentieth Centuries; a critical analysis of selected works by the leading literary figures. Prerequisite: LF 201 or the equivalent.

LF 308 CONTEMPORARY FRENCH CIVILIZATION (3) An examination of the important political, economic, social, intellectual, and artistic elements of contemporary French culture with special emphasis on the changes which have taken place in the last two decades. (This course is required for the teacher certification program in French.)

LF 399 INDEPENDENT STUDY (3) A course offered by special arrangement to the student interested in studying a specific aspect of French literature. A reading knowledge of French is required. Prerequisite: LF 300 or LF 301 or the equivalent.

GERMAN

LG 101 GERMAN I (3) The first course in the German language sequence. An introduction to the sounds and basic grammatical patterns of standard conversational German. Stress on oral comprehension and speaking. Vocabulary is limited to about 300-400 of the most used words and expressions. No prerequisite.

LG 102 GERMAN II (3) The second course in the German sequence. Stress on oral comprehension and speaking plus the reading and writing of simple sentence patterns. Additional active vocabulary of 400-500 new words. Prerequisite: one semester of college or one year of high school German.

LG 103 GERMAN III (3) The third course in the German sequence. Stress on oral comprehension and speaking, reading and writing about topics dealing with contemporary life in the German-speaking world. Additional active vocabulary of 400-500 new items. Prerequisite: one year of college or two years of high school German.

LG 104 GERMAN IV (3) The fourth course in the German sequence. Continued emphasis on the four language skills with topics drawn from contemporary life in German-speaking Europe. An additional vocabulary of 400-500 new items. Prerequisite: three semesters of college or three years of high school German.

LG 120 INTENSIVE GERMAN I & II (6) A one semester course covering the material of both German I and German II. Emphasis on speaking and understanding the spoken language.

LG 200 GERMAN CONVERSATION (3) A course which enables the student to practice the vocabulary and conversational patterns which have already been learned while expanding both vocabulary (300-400 new items) and self-expression. Topics will be taken from newspaper and magazine articles dealing with current issues. Prerequisite: LG 104 or the equivalent.

LG 201 READINGS IN GERMAN LITERATURE (3) Selected readings on an intermediate level whose goal is the development of the student's vocabulary and reading skills. Reading material will be selected from the most current sources, and will include topics dealing with politics, business and commerce, the social scene and the arts. Prerequisite: LG 104 or the equivalent.

LG 399 INDEPENDENT STUDY (3) A course offered by special arrangement to the student interested in studying a specific aspect of German literature. A reading knowledge of German is required. Prerequisite: LG 201 or the equivalent.

ITALIAN

LI 101 ITALIAN I (3) This is the first course in the Italian language sequence. It is designed to introduce the student to the Italian language and to provide a foundation in both spoken and written Italian. Basic structures and vocabulary will be covered. No prerequisite.

LI 102 ITALIAN II (3) The second course in the Italian sequence will continue with more basic structures and will introduce short reading selections from contemporary works, as well as aspects of Italian culture. Prerequisite: one semester of college or one year of high school Italian.

LI 103 ITALIAN III (3) The third course in the Italian sequence will review and expand structures and vocabulary by means of conversations, compositions and oral reports in order to increase fluency in spoken and written contexts. Prerequisite: two semesters of college or two years of high school Italian.

LI 104 ITALIAN IV (3) The fourth course in the Italian sequence will continue to drill on structures and more advanced vocabulary so that by this time the student will be able to express himself in a correct and natural way. Emphasis will be put on phonetics. Prerequisite: three semesters of college or three years of high school Italian.

LI 200 ITALIAN CONVERSATION (3) This course enables the student to practice the vocabulary and conversational patterns which have already been learned while expanding both vocabulary and self-expression. Topics will be drawn from newspaper and magazine articles which deal with current issues. Prerequisite: LI 104 or the equivalent.

LI 399 INDEPENDENT STUDY (3) A course offered by special arrangement to a student interested in studying an aspect of Italian literature. A reading knowledge of Italian is required. Prerequisite: LI 201 or the equivalent.

JAPANESE

LJ 101 JAPANESE I AND LJ 102 JAPANESE II (3 each) An introduction to the Japanese language. During the two semesters the fundamental grammatical structures of Japanese will be introduced. Students will also learn simple conversational patterns. The hiragana and katakana syllabaries will be learned and there will be an introduction to kanji and the use of Chinese character dictionaries in the second semester.

PORTUGUESE

LP 101 PORTUGUESE I (3) The first course in the Portuguese language sequence. Stress on oral proficiency, writing and reading. Vocabulary is limited to about 300-400 of the most used words and expressions. Introduction to the cultures of Brazil and Portugal. No Prerequisite.

LP 102 PORTUGUESE II (3) The second course in the Portuguese sequence. Stress on oral proficiency, writing, and reading. Additional active vocabulary of 400-500 new words. Introduction to the cultures of Brazil and Portugal. Prerequisite of one semester of college or one year of high school Portuguese.

LP 120 INTENSIVE PORTUGUESE (6) A one semester course covering the material of both Portuguese I and Portuguese II. Emphasis on spoken and written Portuguese.

SPANISH

LS 101 SPANISH I (3) The first course in Spanish for those who have never studied the language before. Through an introduction to both sounds and basic grammatical structures, it will provide the student with a foundation in both spoken and written Spanish. In this course the emphasis will be on oral comprehension and speaking, and acquisition of a limited, basic vocabulary.

LS 102 SPANISH II (3) The second course in the Spanish sequence. Stress on oral comprehension and speaking will continue, along with increased practice in reading and writing, and enlargement of active vocabulary. Prerequisite: one semester of college or one year of high school Spanish.

LS 103 SPANISH III (3) The third course in the Spanish sequence will review and seek to expand students' understanding of grammatical structures. Increased emphasis on reading and writing through materials dealing with aspects of the Spanish-speaking world. Prerequisite: two semesters of college or two years of high school Spanish.

LS 104 SPANISH IV (3) The fourth course in the Spanish sequence. Stress on reading and some practice in writing, and on the acquisition of new vocabulary. The four language skills listening, speaking, reading and writing will be practiced in relation to topics dealing with the Spanish-speaking world and with contemporary life. Prerequisite: three semesters of college or three years of high school Spanish.

LS 120 INTENSIVE SPANISH I & II (6) A one semester course covering the material of both Spanish I and Spanish II. Emphasis on speaking and understanding the spoken language.

LS 121 INTENSIVE SPANISH III & IV (6) A one semester course covering the material of both Spanish III and Spanish IV. Emphasis on speaking and understanding the spoken language.

LS 200 SPANISH CONVERSATION (3) Conversation based upon a wide variety of topics both extemporaneous and assigned. Practice with often used expressions and patterns of speech common in a conversational style. The main objective is to develop fluency in speaking and ease in understanding. Prerequisite: LS 104 or the equivalent.

LS 201 READINGS IN HISPANIC LITERATURE (3) Selected readings on an intermediate level of difficulty to develop reading skills and increase vocabulary. An introduction to various literary forms and styles and the vocabulary necessary for literary analysis. Prerequisite: LS 104 or the equivalent.

LS 203 SPANISH CIVILIZATION (3) An examination of the forces, conflicts and beliefs which have shaped Spanish culture. Special attention to major works in the visual arts, music and literature which embody the artistic achievements of Spanish civilization. Oral and reading competence in Spanish is required. Prerequisite: LS 104 or the equivalent.

LS 204 SPANISH-AMERICAN CIVILIZATION (3) An examination of the culture of Spanish America in both pre-columbian and modern times. Emphasis on the diversity of Hispanic cultures in America and the artistic achievements of Spanish-American civilization. Special attention to Mexico, Puerto Rico and contemporary issues in the Hispanic world. Prerequisite: LS 104 or the equivalent.

LS 205 SPANISH COMPOSITION (3) An opportunity to develop your own style in writing by putting words and sentences together in accordance with the rules of Spanish grammar and rhetoric. The student will practice sentence patterns of differing length and complexity. Stress will be placed on the solution of specific problems of Spanish composition. Prerequisite: LS 104 or the equivalent.

LS 206 ADVANCED ORAL SPANISH (3) Intensive practice in speaking in a variety of formal and informal situations so that the student will gain self-confidence in expressing personal ideas in Spanish. Prerequisite: LS 200 or the equivalent.

LS 300 SPANISH LITERATURE I (survey) (3) A survey of Peninsular literature from the medieval era to the end of the Eighteenth Century; a critical analysis of selected works by the leading literary figures. Prerequisite: LS 201 or the equivalent.

LS 301 SPANISH LITERATURE II (survey) (3) A survey of Peninsular literature of the Nineteenth and Twentieth Centuries; a critical analysis of selected works by the leading literary figures. Prerequisite: LS 201 or the equivalent.

LS 306 CONTEMPORARY PENINSULAR LITERATURE (3) A study of Spanish literature from the generation of 1898 to the present. Prerequisite: LS 301 or the equivalent.

LS 307 SPANISH-AMERICAN LITERATURE I (survey) (3) A survey of Spanish-American literature from the colonial period to Ruben Dario; a critical analysis of selected works by the leading literary figures. Prerequisite: LS 201 or the equivalent.

LS 308 SPANISH-AMERICAN LITERATURE II (survey) (3) A survey of Spanish-American literature from Ruben Dario to the present; a critical analysis of selected works by the leading literary figures. Prerequisite: LS 201 or the equivalent.

LS 309 CONTEMPORARY SPANISH-AMERICAN LITERATURE (3) A study of selected major works from the period 1950 - 1970 (the "Boom"), with an emphasis on the novel. Prerequisite: LS 308 or permission of the instructor.

LS 399 INDEPENDENT STUDY (3) A course offered by special arrangement to the student interested in studying a specific aspect of Spanish literature. A reading knowledge of Spanish is essential. Prerequisite: LS 300, LS 301, LS 307 or LS 308 or the equivalent.

GEOGRAPHY AND REGIONAL PLANNING

The Department of Geography and Regional Planning offers the Bachelor of Science Degree in Regional Planning, minors in Geography and Regional Planning, and the Cartography Certificate. Interdisciplinary in nature, the field of regional planning requires knowledge and skills from the areas of the geographic and environmental sciences, political theory and public policy, and design applications. Many students are dual majors in Regional Planning and related concentrations.

Department courses in geographic thought cover the topical areas of earth science, culture-environment, locational and area analysis. Physical geography deals with the description and analysis of the earth's surface, its physical patterns, and human occupants. Cultural, social, and economic aspects of our relationship to the earth are discovered in the interaction between the geographic environment and human behavior.

Students in the Regional Planning major learn to analyze conflicts between land development and preservation. Land use problems are related to environmental pollution, community and economic development, urban design, historic preservation and transportation issues. A strong internship program has placed qualified students in private land use, development, real estate, and public planning agencies.

Recent graduates are employed as town planners; consultants for environmental engineering; they are employed in land use and transportation firms; and are policy analysts and educators. Several of our graduates have gone on to graduate schools across the country.

The Geography and Regional Planning Department has excellent facilities and equipment. Housed in the Wilson Science Building is the computer cartography/remote sensing laboratory, which contains remote sensing video and digital analysis equipment, color and engineering quality and pen plotters, various types of microcomputer hardware and software for cartography, and hardwire connections with the computer center's CDC CYBER and VAX hardware. Also available for cartography students is a completely equipped darkroom and photography complex including a large overhead camera. A new Wilson Science Building weather center contains a computer link to a weather data computer, local meteorological sensors and weather satellite equipment capable of receiving up-to-date images of the earth from the geostationary weather satellite. Department facilities in Bates Hall include a cartography laboratory, physical geography laboratory room and a seminar room.

REQUIREMENTS FOR REGIONAL PLANNING MAJORS

Regional Planning Shared Core - 16 hours: required

GP 101	Principles of Geography	(3)
GP 102	Physical Geography	(3)
GP 103	Physical Geography Laboratory	(1)
GP 105	Introduction to Urban and Regional Planning	(3)
GP 106	Introduction to Environmental Analysis	(3)
GP 311	Seminar in Regional and Environmental Planning	(3)

Regional Planning Methodology - 9 hours; any three (3) courses

GP 231	Introduction to Cartography	(3)
GP 240	Spatial Analysis	(3)
GP 242	Introduction to Computer Mapping	(3)
GP 243	Introduction to Remote Sensing	(3)
GP 340	SPSS: Statistical Package for Social Scientists	(3)
GP 342	Advanced Computer Mapping	(3)
GP 343	Remote Sensing	(3)

Land Use and Environment Applications - 9 hours: any three (3) of the below listed courses.

GP 214	Behavioral Geography	(3)
GP 215	Economic Geography	(3)
GP 216	Urban Geography Seminar	(3)
GP 218	Recreational Geography	(3)
GP 219	Land Use and Resource Planning	(3)
GP 220	Landform Evaluation for Planners	(3)
GP 230	Introduction to Meteorology	(3)
GP 236	Environmental Analysis II	(3)
GP 314	Transportation Geography	(3)
GP 315	Site Location Analysis	(3)

Regional Planning Electives - 9 hours, take any three (3) courses listed below or any courses taken beyond the required from the Land Use and Environmental Applications courses listed above.

BI 201	General Ecology	(3)
BI 202	Conservation	(3)
BI 223	Environmental Legislation	(3)
CJ 206	Crime and the City	(3)
EC 301	State and Local Finance	(3)
EC 304	Economics of Urban Development	(3)
EN 347	Advanced Writing Techniques	(3)
GP 211	Population Geography	(3)
GP 217	Global Issues of the Future	(3)
GP 219	Land Use and Resource Planning	(3)
GP 300	Regional Geography of Europe	(3)
GP 301	Regional Geography of Africa	(3)
GP 308	Cultural Geography of Europe	(3)
GP 350	Internship in Regional/Environmental Planning	(3)
GP 399	Independent Study in Geography and Planning	(3)
HI 269	Contemporary American City	(3)
HI 344	The City in American History	(3)
HI 348	History of City/Regional Planning	(3)
HI 365	History of Urban/Regional Planning	(3)
PL 204	Introduction to Public Administration	(3)
PL 205	Urban Politics	(3)
PL 318	Public Management Skills	(3)

MINORS IN GEOGRAPHY AND REGIONAL PLANNING

The minor in Regional Planning is tailored to the particular interests of the student in the Regional Planning program. The minor requires a total of 18 semester hours of course work, including GP 105 and GP 106, any one course listed in the methodology section, and any three courses listed in the Land Use and Environmental Applications sections.

The department offers two (2) Geography Minors which require 18 semester hours. Principles of Geography (GP 101) is required in each minor. The student is advised of the courses related to specific interests from the courses listed below.

The Cultural-Regional Geography minor involves a specialization in a particular region of the world. The Applied Geography minor includes courses related to site location analysis and application.

APPLIED GEOGRAPHY

GP 101	Principles of Geography	(3)
GP 102	Physical Geography and Lab	(4)
GP 105	Intro Urban & Region Analysis	(3)
GP 213	Travel and Tourism	(3)
GP 214	Behavioral Geography	(3)
GP 215	Economic Geography	(3)
GP 216	Urban Geography	(3)
GP 230	Meteorology or GP 330 Climatology	(3)
GP 240	Spatial Analysis	(3)
GP 241	Cartography	(3)
GP 242	Computer Mapping	(3)
GP 244	Remote Sensing	(3)
GP 314	Transportation Geography	(3)
GP 332	Geomorphology	(3)
GP 340	Statistical Package for Social Scientists	(3)

CULTURAL-REGIONAL GEOGRAPHY

GP 101 Principles of Geography	(3)
GP 102 Physical Geography and Lab	(4)
GP 201 Geography of Africa	(3)
GP 202 Geography of Anglo-America	(3)
GP 210 Cultural Geography	(3)
GP 212 Political Geography	(3)
GP 214 Behavioral Geography	(3)
GP 241 Cartography	(3)
GP 300 Geography of Europe	(3)
GP 302 Geography of North America	(3)
GP 330 Climatology	(3)

CARTOGRAPHY CONCENTRATION AND MINOR (CARTOGRAPHY CERTIFICATE PROGRAM)

Cartography is the part of geography that deals with the theory, design, and production of maps. The Cartography concentration/minor is a set of courses designed for students who wish to pursue a career in this field. In order to help students meet federal guidelines for an entry level cartographer, the following courses are required of students seeking a concentration or minor in cartography at Westfield State College:

Prerequisites for Admission to the Cartography Concentration Program (9 hours)
GP 101 Principles of Geography or GP 102 Physical Geography (3)
MA 103 College Algebra
MA 104 Precalculus

Required Courses in Cartography Concentration/Minor (18 credits)

GP 241 Introduction to Cartography	(3)
GP 242 Computer Mapping	(3)
GP 243 Introduction to Remote Sensing	(3)
GP 340 Statistical Package for the Social Sciences	(3)
GP 341 Advanced Cartography	(3)
GP 343 Advance Remote Sensing	(3)
FA 206 Lettering and Layout	(3)

COURSES

GP 101 PRINCIPLES OF GEOGRAPHY (3) An introductory course which introduces the student to the scientific principles of geography, including spatial organization, spatial diffusion, Central Place Theory, urban land use and human-environment interaction. Students also learn to interpret maps and do exercises in a variety of modern geographic topics such as migration, site location and computer mapping.

GP 102 PHYSICAL GEOGRAPHY (3) Analysis, through a conceptual approach of regional landform development, climatic patterns, vegetation distributions, soil groupings and factors influencing the location of major economic minerals. The man-land relationship will be emphasized. Extensive use of maps.

GP 103 PHYSICAL GEOGRAPHY LABORATORY (1) An optional laboratory session correlated with GP 102 Physical Geography. Conduct of this course will include field study and laboratory techniques. Map and aerial photographic interpretation skills will be emphasized. Prerequisite: Concurrent enrollment or previous enrollment in GP 102.

105 INTRODUCTION TO URBAN AND REGIONAL ANALYSIS (3) Deals with the history of urban planning, planning theory and the specialty areas of planning, including physical, social and economic planning. Urban, regional and environmental issues are related to applications of solutions to land-use problems at the municipal, state and federal levels. Specific topics covered: innovative zoning techniques, land preservation strategies, governmental programs for housing and economic revitalization and comprehensive master planning

GP 106 INTRODUCTION TO ENVIRONMENTAL ANALYSIS (3) Introduces the interface of the human and natural environmental systems. Topics include air and water pollution, forest and wildlife preservation, risk assessments of floods and other hazards, urban climatology and various techniques of environmental assessment.

GP 200 GEOGRAPHY OF EUROPE (3) A regional geographic study of physical, economic, cultural and political patterns of Europe. Population patterns will be evaluated via sequent occupance studies. Assets and liabilities of individual states will be evaluated and discussed in an attempt to promote a better appreciation of the geographic structure of Europe.

GP 201 GEOGRAPHY OF AFRICA (3) A regional, physical and cultural geographic survey of Africa. A study of the distribution of land

and people, physical environment, resources, settlement, and economic development. Special emphasis will be given to cultural elements. A geographic interpretation of the political and economic problems of emerging African States will be considered. Prerequisite: GP 101.

GP 202 GEOGRAPHY OF ANGLO-AMERICA (3) A physical and cultural survey of Anglo-America. A geographic interpretation of the settlement, resource development and problems of Anglo-America.

GP 208 WORLD ECONOMIC GEOGRAPHY (3)

GP 209 WORLD POLITICAL GEOGRAPHY (3)

GP 210 CULTURAL GEOGRAPHY (3) An analysis of the man-land relationship as evidenced in the variety of culture worlds that exist. Special emphasis on growth of the population as well as the invention and diffusion of ideas.

GP 211 POPULATION GEOGRAPHY (3) Discusses the spatial distribution of the three major demographic variables, fertility, mortality and migration. Attention also given to US migration trends, the demographic transition, world economic development, geography of disease and the use of certain demographic techniques (e.g., population projections, etc.).

GP 212 POLITICAL GEOGRAPHY (3) International disputes over boundaries and resources, including internal conflicts over water rights; the Law of the sea; political manipulation of space (e.g., Gerrymandering, "redlining," redistricting, etc.); electoral politics and geographic expression of voting patterns on a national, regional, state and urban level.

GP 213 TRAVEL AND TOURISM (3) Surveys major world tourist areas, the role of the physical environment in tourism and recreation, trip planning, travel agency operations and recreational planning.

GP 214 BEHAVIORAL GEOGRAPHY (3) Behavioral geography focuses on the relationship (or interaction) between the geographic environment and human spatial behavior. Some major topics of the course include: how one's mental images of the environment influence spatial behavior; cognitive mapping, a study of human orientation in geographic space; preferences or evaluations of certain types of climates or landscapes; models of spatial decision making (e.g., migration decisions, human versus environment studies (hazard perception) personal space; and the affective bond between people and places. Prerequisite: sophomore standing.

GP 215 ECONOMIC GEOGRAPHY (3) An analysis of basic economic activities and the ways in which environmental factors affect them. Major emphasis is given to the differences between economies of abundance and economies of scarcity, with special emphasis on present world resource problems. This course may be taken as part of the requirements for Economic majors with the permission of both departments.

GP 216 URBAN GEOGRAPHY (3) A study of the urban setting through a geographical analysis of its social, economic, demographic, political and environmental problems. The structure of the course will allow the student to conduct independent research in areas where his/her main interests lie. Independent research will be prefaced with a short history of the origin, growth development and spread of urbanism. Prerequisite: permission of instructor.

GP 217 GLOBAL ISSUES OF THE FUTURE (3) Addresses a variety of conditions, problematical issues, and potential solutions confronting global society as we close in on the 21st century. Specific topics to be discussed include future shock, the consequences of a "shrinking" world, urbanization and world cities, trans-national corporations, alternative and exotic energy sources, environmental quality, resource scarcities, geopolitical developments, space control and colonization, and emergent lifestyles. Prerequisite: Sophomore standing.

GP 218 RECREATIONAL GEOGRAPHY (3) An introduction to the patterns of provision, use and management of recreation resources. Primary focus is on outdoor public recreation resources. Major topics include spatial analysis of physical setting, development of public needs, government policies, site management, economic and social concepts which impact on outdoor recreation planning. Special emphasis will be placed on the recreational resources of the New England region. Prerequisites: GP 101 or GP 102.

GP 219 LAND USE AND RESOURCE PLANNING (3) An analysis of land use within the urban area and a historical perspective on land use in America from colonial times to the present. Part two is devoted an in-field inventory of present day patterns of land use in a local urban area. The concluding segment of the course will involve analysis of the land use inventories to determine areas of conflicting land uses and to offer solutions to resolve these conflicts. Prerequisite: GP 102.

GP 220 LANDFORM EVALUATION FOR PLANNERS (3) This course provides students with a basic understanding of the physical setting in which planning is accomplished. The principles of landform analysis are

intensively studied. Case studies involving natural hazards will be presented. Extensive use of maps. Prerequisite: GP 102.

GP 230 METEOROLOGY (3) A nonmathematical introduction to weather science. Students are introduced to the basic elements of weather: earth-sun relations, temperature, winds and atmospheric pressure, humidity and precipitation, air masses, fronts, cyclogenesis, weather forecasting and storms. Students are also acquainted with the use of weather instruments.

GP 235 GEOMORPHOLOGY (3) An analysis of various processes of landform development, with emphasis on the delimitation of landform regions. Prerequisite: GP 102.

GP 236 ENVIRONMENTAL ANALYSIS II (3) Provides an advanced treatment of the problems created by the interfacing of natural and human systems in the environment. Special emphasis will be placed on problems unique to the New England context, including air and water pollution, waste management and the development of New England coastal areas. Prerequisite: GP 106.

GP 240 SPATIAL ANALYSIS (3) An introduction to the use of quantitative methods in the analysis of spatial distributions.

GP 241 INTRODUCTORY CARTOGRAPHY (3) A laboratory course which is designed to survey the field of cartography. An analysis is made of early map projections and the evolution of modern mapping techniques. Map intelligence, maps, and aerial photo interpretation will constitute a significant portion of the course. Emphasis will be given to the interpretation of data spatially. Each student will be introduced to the cartographic process and participate in the design, production and reproduction of various graphics.

GP 242 COMPUTER MAPPING (3) Student is introduced to the use of computer in automatic mapping operations, including the computer line printer, pen plotter and CRT. The basic computer mapping software packages are introduced: SYMAP and CALFORM. Student also learns map digitation processes. No computer programming knowledge is required for the course.

GP 243 INTRODUCTION TO REMOTE SENSING (3) An introduction to the application of remote sensing techniques for the inventory and analysis of earth resources. Included are the treatments of exotic sensors, eletromagnetic energy physics and data processing for digital classification techniques. Prerequisite: GP 102.

GP 300 REGIONAL GEOGRAPHY OF EUROPE (3)

GP 305 REGIONAL GEOGRAPHY OF NEW ENGLAND (3) A study of the various physical features of New England: forms, climate, soil and vegetation, with an emphasis on natural resources and manufacturing.

GP 308 CULTURAL GEOGRAPHY OF EUROPE (3-6) A variable credit course for those students doing cultural geography fieldwork in Europe.

GP 311 SEMINAR IN REGIONAL AND ENVIRONMENTAL PLANNING (3) Focus of the seminar is on the formulation and development of a plan which addresses a particular land use or growth management problem. Readings and discussion involve aspects of the master planning process. Projects involve environmental pollution impact studies. Independent research is conducted by collecting and analyzing data and recommending alternatives and solutions to the planning problem. Prerequisite: GP 105, GP 106, GP 340 or the Permission of Instructor.

GP 314 TRANSPORTATION GEOGRAPHY (3) Deals with the evolution, significance, and underlying geographic principles of transportation, the theoretical bases of interaction, and the techniques of network analysis. The format of the course will allow the student to conduct independent research in the areas of interest. A significant portion of the course will introduce the student to computer-assisted techniques for transportation system analysis, although no student experience with computer operation is assumed. Prerequisite: GP 101.

GP 315 SITE LOCATION ANALYSIS (3) An introduction to the geography of locational analysis. Theories and methods of site locational analysis are introduced. Students are presented with case studies involving the best locations for various types of facilities, with special emphasis on business site location.

GP 316 AMERICAN SUBURBANIZATION (3) Examines post WWII expansion of American suburbs. The course traces the rise of suburbs as a dominant feature on the American metropolitan landscape and analyzes the political, economic, social, and cultural ramifications of suburban development on American city life. Prerequisite: GP 105.

GP 330 CLIMATOLOGY (3) A study of the processes and patterns of the world's climates. After a review of basic meteorology, the Koppen and Thorthwaite classification systems are discussed. The final portion of the course investigates applied climatology which includes: human biometeorology (climate and humans), agriculture climatology, climates past and future and the effect of climate on transportation, architecture, business and the construction industry. Prerequisite: GP 230.

GP 331 SEVERE AND UNUSUAL WEATHER (3) Introduces students to the meteorological conditions associated with the formation of severe weather conditions, and examines the impact of hostile weather on human activities. Lectures focus on the Jet Stream and its role in the genesis of cyclones, blizzards, severe thunderstorms, lightning, hail, tornadoes, hurricanes, floods, droughts, cold and heat waves and bizarre weather phenomena such as dust devils, Chinooks, Haboobs, Santa Anas and mountainadoes. Prerequisite: GP 102 or GP 230.

GP 340 STATISTICAL PACKAGE FOR SOCIAL SCIENTISTS (SPSS) (3) This course exposes students to the variety of statistical routines available in the widely-used Statistical Package for Social Sciences (SPSS). Class time divided between lectures and application of statistical methods in SPSS program. Emphasis is placed upon a series of computer laboratory exercises, including frequency distributions, crosstabs, regression and correlation, Chi-Square, T-Test and others. No prior computer programming knowledge required.

GP 341 ADVANCED CARTOGRAPHY (3) Advanced principles of cartographic design and map reproduction. Coverage of topics such as map projections, landform representation, reproduction processes and advanced principles of thematic mapping. Prerequisite: GP 241.

GP 342 ADVANCED COMPUTER MAPPING (3) Deals with the production of maps and graphics at a more advanced level. Particular attention given to a computer mapping packages that have three-dimensional capabilities. Prerequisite: GP 242.

GP 343 ADVANCED REMOTE SENSING (3) An advanced approach which provides students with an introduction to the application of remote sensing techniques for the inventory analysis of earth resources. Included are treatments of exotic sensors, electromagnetic energy physics and data processing for digital classification techniques.
Prerequisites: GP 102 and GP 243.

GP 344 GEOGRAPHIC INFORMATION SYSTEMS (3) A geographic information system (GIS) is designed to accept, organize, statistically analyze, and display diverse types of spatial information that are digitally referenced to a common coordinate system. Included are steps for socio-economic and physical data acquisition, encoding, management, analyses and graphic display.
Prerequisites: GP 243, junior or senior standing.

GP 350 INTERNSHIP IN REGIONAL AND ENVIRONMENTAL PLANNING (3-12) Students must apply for an internship to the Coordinator of Regional Planning one semester in advance of the one during which he/she will be scheduled to do the internship. Students who meet the criteria for internship status are matched with available options. Special interests and requirements of the skills of the internship position are taken into consideration in the assignment.

GP 360 FIELD METHODS (3) Explores the basic methods used to make physical and sociocultural observations or measurements in a spatial setting. Off-campus field work is required. Specific skills developed include map reading, aerial photographic interpretation, field sketch mapping, compass traverses, sampling, questionnaire design, interviewing, analysis and reporting. Prerequisites: GP 102 and Jr.-Sr. standing.

GP 390 SEMINAR IN GEOGRAPHY (3) This seminar will be conducted by members of the Geography Department and will include guest lectures. It will focus on geographic methods, the interdisciplinary nature of geography, methods of inquiry and present trends.

GP 399 INDEPENDENT STUDY (3-6) A course by special arrangement in a specific theoretical or applied area in Geography or Regional Planning. A student may be assigned a series of readings and discussions, or and applied project in an area of environmental quality control, land preservation or design techniques.

HISTORY

The major in History is structured to provide undergraduates with an understanding of the past as well as to teach skills enabling them to attack any sort of problem, to ask appropriate questions, to assemble valid evidence, and to arrive at rational conclusions. Given such training, the student majoring in History is prepared for graduate work in history or law, or to pursue careers in international business, communications, teaching, government service, museum administration, social work, and library science. The department also has a fully-accredited teacher-training program, administered in conjunction with the Department of Education.

An integral part of the department is the Institute for Massachusetts Studies, which publishes the Historical Journal of Massachusetts as well as books related to the history and culture of the region. The Journal draws important contributors and reviewers nationally, and has a circulation of well over one thousand, including university and college libraries in the United States and in several foreign countries. Students serve on a board of student editors, and outstanding student research papers are occasionally published.

The campus supports an active chapter of Phi Alpha Theta, the National Honor Society in History, and qualified students are inducted into the society in the junior or senior year.

A number of internship opportunities allied to the study of American History are available. These include museum work at Old Sturbridge Village, the Holyoke Museum, the Basketball Hall of Fame, and the Connecticut Valley Historical Museum, and archival and library work at the Springfield City Library and the John Fitzgerald Kennedy Library in Boston.

HISTORY MAJOR REQUIREMENTS
I. Major core 9 credits in 100-level History courses.
II. Major advanced program: In consultation with a department faculty adviser, students will define a field of concentration within one of three areas: European History, American History, or Non-Western (Africa, Asia, Latin America) History. The concentration will consist of 18 credits in one of these three areas and will be supplemented by 12 credits in a different, but chronologically or topically related field, chosen from the two remaining areas.

Distribution of courses by level, concentration and allied area:

A. Core for major (9 credits)
100-level courses 9 s. hrs. credit
HI 101 Western Experience I (3)
HI 102 Western Experience II (3)
HI 130 United States History & Government (3)

B. Field of concentration (18 credits)
200-level courses 12 s. hrs. credit
300-level courses 6 s. hrs. credit

C. Allied field (12 credits)
200-level courses 9 s. hrs. credit
300-level courses 3 s. hrs. credit

Total credits in History Major 39

Descriptions of fields within the three areas noted above may be obtained from the History Department. Students interested in teacher certification MUST meet with the program director, to ensure that they enroll in courses which meet the requirements of that program.

CERTIFICATION FOR TEACHER OF HISTORY (5-9, 9-12)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach History at the Middle or High School levels must complete the following:
All courses for the History major
The 18-credit secondary education sequence, described in the Education Department listings
HI 298 (HI 299) Methods of Teaching History: Middle (Secondary) School

COURSES

A. EUROPEAN

HI 101 WESTERN EXPERIENCE I (3) A survey of pre-modern (pre-1500 A.D.) Western civilizations. Major topics include: the "classical" societies of ancient Greece and Rome, the rise of Christian civilization in Europe, and the nature of medieval society and culture.

HI 102 WESTERN EXPERIENCE II (3) A multidisciplinary approach to understanding the nature of modern (post-1500 A.D.) European civilization. Through lectures and discussions, students will explore demographic, sociological, political, and cultural elements of Europe's evolution from traditional to modern modes of activity and thought.

HI 201 MEDIEVAL EUROPE (3) The institutional, economic, and intellectual history of Europe as it emerged from its Roman and Germanic antecedents and developed into a distinctly western civilization. Emphasis will be placed upon the growth of medieval governmental institutions and the great intellectual achievement of the high middle ages.

HI 203 RENAISSANCE AND REFORMATION EUROPE (3) An examination of the "waning of the Middle Ages" and the "Dawn of a new era" in the light of recent historical research. The physical and psychological impact of the Black Death, the fascination with the classical past, the religious revolution and the possibility of individual creativity will be considered in the context of the scientific, social, and political assumptions of Europeans from the 14th through the 16th centuries.

HI 205 17th CENTURY EUROPE, 1559-1715 (3) The 17th century began with political chaos, economic dislocation, religious passion, and endemic violence. The century ended with political stability, economic viability, toleration, and pervasive skepticism. The course will examine the nature of these changes, with particular attention to the physical and psychological impact of 17th century warfare, the nature of scientific inquiry, and the reordering of 17th century monarchies.

HI 207 18th CENTURY EUROPE (3) An examination of the development of this great age which launched Europe on the path of Revolution. Important political and intellectual antecedents will be discussed. This will be followed by a thorough study of the ideas, institutions and society of 18th century Europe, culminating in the French Revolution of 1789.

HI 209 19th CENTURY EUROPE (3) An examination of the effects of the combined forces of nationalism, revolution and the Industrial Revolution upon the fabric of European political, social, and economic institutions. Special consideration will be given to drives for national unity in Italy and Germany, and their effects upon the European balance of power prior to World War I.

HI 211 EUROPE SINCE 1919 (3) An examination of Europe's efforts to recover from the first World War, to work out the self-determination policy of the Versailles Treaty to survive the great depression, and to resolve the conflicts which precipitated World War II. The course will also examine the post-war problems of the United Nations, the Cold War, the end of Imperialism, the common market, and new regional pacts.

HI 216 THE FRENCH REVOLUTION (3) This course will deal with the upheaval that effectively destroyed the age-old European hierarchical society and laid the foundation for modern political systems. The problem of the impact of ideas, the role of economic dislocation and political dysfunction as portents of revolution will be considered. Use will be made of the newer research into demography and crowd psychology as well as of the traditional literary and historical sources.

HI 223 WORLD WAR I: The "Real" War (3) War was expected and planned for in turn-of-the-century Europe. Almost no one, however, was prepared for a war so obscene by nature and in a dimension unparalleled in the previous history of modern Europe. An entire generation of young men and "of the best among them" of each of the major powers of Europe perished in the "Great" War as it is called by Euro-peans. The course will treat the causes, the course and the nature of the war. The impact of the war on contemporaries will be mea-sured through biographical, autobiographical and other literary sources written by parti-cipants in, or close observers of, the war.

HI 225 LONDON AND PARIS, 1610-1870 (3) A study of the transition of two major European cities from walled towns defined by charters of liberties to metropolitan capitals. Two broad categories will be considered: first, the changing relationship between the town and the territorial state, with the disappearance of walls and the impact of population explosion; and second, the changing patterns of settlement within the town, the growth of slums, the effectiveness of city planning, and the interrelation of town organization, crowd psychology and political revolution. Recent studies of urban demography, labor patterns and city planning will be used, as well as maps, pictures, memoirs and novels.

HI 231 MODERN BRITAIN, 1738 to WORLD WAR II (3) Explores a number of significant themes in the historical experience of Modern Britain; viz, the evolution of the social welfare state, the political and environmental impact of the industrial revolution, urbanization and demographic change, the political and social democratization of British society, the rise to great power status and the subsequent decline of Britain, and the impact of post-war economic and political organization upon traditional British structures and values.

HI 235 MODERN IRELAND, 1783 TO PRESENT (3) The major theme of the course will revolve around the origins, development, character and tactics of the Irish nationalist movement. The seventeenth century confiscations, the American and French Revolutions, the Emancipation and Repeal movements, the Great Famine, the Home Rule agitation, and the Irish cultural renaissance which combined to create a militant Irish nationalism, culminating in the 1916 Rebellion, will be the major issues examined. Secondary themes will be the decisive role of the Irish Question in molding British political and constitutional developments, the causes and significance of the recent violence in Northern Ireland, and the impact of the twentieth century modernization and the E.E.C. upon traditional Irish nationalism.

HI 239 HISTORY OF RUSSIA I (3) A survey of Russian civilization from its origins to the mid-nineteenth century. Major themes include: the rise of autocracy, serfdom, and empire, as well as the nature and achievements of Russian culture.

HI 240 HISTORY OF RUSSIA II (3) A survey of modern Russian civilization since 1881. Major themes include: the origins and consequences of the Russian revolutions, the nature of the Soviet system, the achievements of Russian and Soviet culture, and the US-USSR contest for world empire.

HI 300 PROBLEMS IN EUROPEAN HISTORY (3) Significant themes or issues in the evolving process of European Civilization examined in detail. May be taken three times for credit.

HI 305 ENGLAND AND AMERICA IN THE 17th CENTURY (3) Between 1620 and 1642, 58,000 Englishmen left home for the New World, despite its deserved reputation as a death trap. The course will examine in depth the motives both in terms of protest and aspiration of the emigrants, the impact upon them of the wilderness and the Indian, and the emergence of such specifically American institutions as the Puritan family, the town structure, and slavery. Discussion and independent research.

HI 309 THE COLLAPSE OF EUROPE, 1890-1922 (3) The period extending from 1890 to 1922 was witness to one of the most profound and sudden intellectual, cultural and political revolutions in the history of Western Europe. The Intellectual Revolution, taken together with World War I and the Russian Revolution, is often regarded as marking the end of an epoch in European history that started as early as the Renaissance and which took sharper form during the 18th century Enlightenment. The course focuses attention on the thought of European intellectuals during the period, and on the varying consciousness among them, of a sense of profound cultural change.

HI 315 LIVING AND DYING IN EUROPE, 1610-1870 (3) The course presents an introduction to the patterns of everyday life of ordinary Europeans before and after the "vital revolution" of the 18th century, a revolution which marked the shift from recurrent mortalities to population explosion. The relationship between the exploitation of resources and population in terms of family life, economic distribution, political organization and popular psychology will be examined. Much of the material is recent and controversial. The course will be conducted by discussion and students will be expected to do a considerable amount of independent research.

HI 340 RUSSIA IN REVOLUTION 1900-1930 (3) A study in detail of the revolutionary experience of Russia: three "revolutions" and a civil war within twenty years. The student will study the causes and effects of violent change, the origins for the Soviet state (theory and practice) and the terminology and method of Soviet historiography.

AMERICAN

HI 130 UNITED STATES HISTORY AND GOVERNMENT (3) A survey of the United States history tracing the growth of American institutions and interpreting periods and events of important national significance. Consideration will be given to the causes and results of wars, presidential administrations, great issues and changes in governmental attitudes.

HI 241 RESPONSE TO INDUSTRIALISM, 1877-1932 (3) Examines the rise of American industrialization and urbanization, the development of national movements of Progressive reform and labor organization, as well as the increasing importance of American involvement in world affairs. Prerequisite: HI 130.

HI 243 UNITED STATES HISTORY, 1932-PRESENT (3) Will provide the student with knowledge of the continuing evolution of the American welfare state, federal fiscal crises, the impact of technology upon the rural and

urban environment, and the impact of science and technology on social and economic conditions. Prerequisite: HI 130.

HI 251 AMERICAN COLONIAL HISTORY 1607-1776 (3) The political, economic, and social development of the American colonies from the age of exploration to the Declaration of Independence. Topics include exploration, early settlement, and the development of the colonies through the coming of the American Revolution.

HI 255 THE AGE OF JEFFERSON AND JACKSON, 1776-1845 (3) A study of the American Revolution and its aftermath including the "critical period" and the drafting of the United States Constitution. Topics include the emergence of political parties, Jeffersonian and Jacksonian democracy, expansion and the War of 1812, and the emergence of sectionalism.

HI 257 THE CIVIL WAR AND RECONSTRUCTION, 1845-1877 (3) The causes of the War, the conduct of the war; the attempt at reconstruction in its political, social, and economic aspects; national reunification.

HI 260 UNITED STATES HISTORY 1877-1932 (3) An analytical portrayal of the American nation from the post-Reconstruction period through the beginnings of the Great Depression. Themes of study will include American industrialization, urbanization, Progressivism, and reform, economic development, and the increasingly important role of American involvement in world affairs.

HI 266 U.S. SOCIAL AND CULTURAL HISTORY I (3) An examination of American social and cultural developments from the early colonization to the Civil War. Topics to be studied include the religious history of colonial America, changing social and family life, entertainment, the impact of democracy and nationalism on American life, and the workers, north and south.

HI 267 U.S. SOCIAL AND CULTURAL HISTORY II (3) An examination of American social and cultural developments from the Civil War to the present, with projections for the future. Topics to be studied include industrialization, urbanization, immigration, changes in family and social relationships, religion, and a focus on women, Blacks, Indians, and minorities.

HI 268 THE CITY IN AMERICAN HISTORY (3) A study of the American city from colonial times to 1919. The course examines the impact of urbanization upon social and institutional structures. Topics include the rise of the city, transportation revolution, the impact of technology, industrialization, immigration, physical growth patterns, social mobility, reform, and the rise of city planning.

HI 269 THE CONTEMPORARY AMERICAN CITY (3) The American City since 1919 as studied through the forces that have shaped the contemporary city: the automobile, the highway revolution, metropolitan and megalopolis forms, ghettos, suburbanization, and city and regional planning. Particular emphasis will be given to the nationalization of the American City.

HI 270 PROBLEMS IN AMERICAN HISTORY (3) This course will offer readings and/or research in a specific prearranged topic in American history. Examples of the topics are sickness and health in American History, the Immigrant Experience, the Depression, etc. This course may be taken three times for credit.

HI 274 MASSACHUSETTS HISTORY TO 1820 (3) An examination of the history and society of Massachusetts from the period before the arrival of Whites to 1820. Major topics to be covered include the Puritan experience, Indian-White relationships, the Revolutionary era, Massachusetts under the Articles of Confederation, the early development of industrialization, and the War of 1812 and its aftermath.

HI 275 MASSACHUSETTS HISTORY SINCE 1820 (3) An examination of the history and society of Massachusetts from the early 19th century to the present time. Major topics to be covered include immigration and its impact on Massachusetts, industrialization, urbanization and suburbanization, the cultural flowering of the 19th century, the Civil War, the changing environment and economy, and the impact of technological developments in the post-World War II period.

HI 350 SENIOR SEMINAR: EARLY AMERICAN HISTORY (3) An in-depth research and/or reading experience in early American history, building upon the student's background and interests. The course will include discussion, criticism by classmates, analysis by the instructor. Prerequisite: two 200-level courses in the field or equivalent.

HI 355 SENIOR SEMINAR: 19th CENTURY AMERICAN HISTORY (3) An in-depth research and/or reading experience in 19th century American history, building upon the student's background and interests. The course will include discussion, criticism by classmates, and analysis by the instructor. Prerequisite: two 200-level courses in the field or the equivalent.

HI 360 SENIOR SEMINAR: RECENT AMERICAN HISTORY (3) An in-depth research and/or reading experience in recent American history, building upon the student's background and interests. The course will include discussion, criticism by classmates, and analysis by the instructor. Prerequisite: two 200-level courses in the field or equivalent.

HI 361 INTERNSHIPS IN AMERICAN HISTORY (1-15) A program centering on study and internship in various career fields allied to the study of American History. These may include museum work, historical restoration projects, local archaeology, archival work, and historical editing (editing is limited to 1 credit per semester, a maximum of 3 credits may be earned). While gaining practical work experience through the internship program, the student will also be undertaking a directed research project associated with the area of internship. Prerequisite: permission of director of internships.

HI 365 THE HISTORY OF CITY AND REGIONAL PLANNING (3) The development of the urban planning profession in America is studied from the 1890's to date. The course will analyze planners' responses to rising problems of land use, zoning, housing, suburbanization, environmental problems, highways, strips, malls and the larger requirements of metropolitan and regional need created by the evolution of urban form and structure.

C. NON-WESTERN

HI 150 INTRODUCTION TO NON-WESTERN WORLD (3) Provides a brief survey of the essential elements of the history and culture of the peoples of Asia and Africa. Includes an analysis of the roles played by Buddhism, Confucianism, Hinduism and Islam in developing the unique characteristics of the non-west; and a summary of the major historical events of China, India and Africa, as well as a study of the relations of these countries with each other.

HI 276 THE SPANISH EMPIRE IN AMERICA (3) The course will examine the Spanish discovery and conquest of America from Columbus to the 19th century revolutions for independence. Focal points will be the existence of the great Indian civilizations; the formation of Spain's American Empire; the Indian receptivity of Spanish culture; and the factors which contribute to the decline and fall of this most extensive of the European empires in the Western Hemisphere.

HI 277 LATIN AMERICAN NATIONS, 1825 TO THE PRESENT (3) The course focuses on the emergence of the Latin American countries, their common characteristics, their struggles for survival in the face of persistent dictatorships and military juntas, and the survival of colonial traditions which have both facilitated and impeded their development in the large community of nations.

HI 282 TRADITIONAL AFRICA TO 1807 (3) The history of Africa is to be surveyed from prehistoric times to 1807. Topics covered will include an introduction to the geography, peoples and culture of the continent. More specialized topics will include studies of prehistoric Africa, Africa and the classical world, formation and history of sudanic and savanna states, Bantu migrations, African states of the east coast, initial European contacts with continent, the slave trade and the beginnings of exploration.

HI 283 CONTEMPORARY AFRICAN HISTORY (3) The second half of the study of the history of Africa will be devoted to a survey of the period from the English and slave trade law of 1807 to the present. Topics covered will include the slave trade of the 19th century and its suppression, exploration of the continent, the impact of imperialism, the formation and administration of colonies, and the nationalist movements. There will be further specialized topics concerning modern Africa such as economic and political development, confrontation between the races, Africa in world affairs, and studies in depth of individual nations.

HI 286 TRADITIONAL FAR EAST (3) A study of the historical and cultural foundations of China, Korea, India, and Japan including their dynastic developments until the eighteenth century.

HI 287 CONTEMPORARY FAR EAST (3) Western contacts with Asia beginning with the eighteenth century, emphasizing the Chinese world view in the History of Asia, including the emergence of Modern China and Japan.

HI 290 PROBLEMS IN NON-WESTERN HISTORY (3) These courses are designed to focus the attention of the student on a specific problem within the scope of historical study the fields of Africa, Asia, or Latin America. The problems will be of contemporary interest; and they will include intensive research, readings, class discussions, and the production of a scholarly paper. The field and problem(s) will be designated prior to the semester in which the course is offered. This course may be taken 3 times for credit.

HI 291 EXPANSION OF EUROPE AND IMPERIALISM (3) The period to be covered will be 1415 to the present. This will include the formation of both the "old" and "new" empires, as well as a study of the modern relations between ex-colony and "mother country." Topics to be covered will be the initial European exploration and colonization of Asia and Africa as well as the "new world." The conflict of European nations leading to the loss of most of the "old" empire by England, France, Spain, Portugal and Holland will be traced. The remainder of the course will be devoted to a study of the causes of the growth of the "new" empire under the general term imperialism.

HI 292 MODERN MIDDLE EAST (3) A survey of the history of the Middle East from the First World War to the present, with special attention to the issues of conflicting nationalisms and change, as well as the significance of modern Islam.

HI 370 PROBLEMS IN AFRICAN HISTORY (3) Intensive guided research and presentations of written results in a scholarly manner on a major topic of historical interest in African studies. Topics such as nationalism, state formation and colonial institutions may be selected depending on research facilities and student interest. The major topic will be designated in advance of registration. The course may be taken three times for credit.

HI 373 MODERN LATIN AMERICA (3) An opportunity to study modern Latin America's struggle with elites, military and civilian juntas, regional pacts, and national security v. human rights since 1950. Lectures and directed readings will provide opportunities for in-depth special interest research and study.

HI 375 UNITED STATES LATIN AMERICAN RELATIONS (3) The course probes the Latin American response to questions of U.S. interference and influence of various types, and it will also examine the snared goals of the two areas. Specific examples will be discussed, e.g., the Cuban Revolution, the Panama Canal Treaties, Multinational corporations, United States aid and development projects, and Latin American relations with the non-aligned world.

D. GENERAL

HI 298 METHODS OF TEACHING HISTORY: MIDDLE SCHOOL (3) A practical experience for students planning a career as a middle school history teacher. This course will cover a variety of topics, including the developments of goals and objective, planning, questioning, inquiry teaching, reading and writing skills, the use of media as a teaching tool, simulation activities, and more. This course should be taken the semester prior to enrolling in the Practicum.

HI 299 METHODS OF TEACHING HISTORY: SECONDARY (3) A practical experience for students planning a career as a secondary school history teacher. This course will cover a variety of topics, including the developments of goals and objective, planning, questioning, inquiry teaching, reading and writing skills, the use of media as a teaching tool, simulation activities, and more. This course should be taken the semester prior to enrolling in the Practicum.

HI 385 PSYCHOHISTORY (3) To explore the possible relationships between psychoanalytical theory, biography, and historical movements. An examination and evaluation of some of the works on psychohistory and psychobiography will be included. Theoretical questions concerning the relationships between psychobiology, psychoanalytical theory, and biographical traits will be viewed.

HI 399 INDEPENDENT STUDY I, II, III (3) Independent study consists of directed reading and research on an historical subject agreed upon by the student and instructor and approved by the Chair of the Department. Arrangements must be made with the instructor and Chair before registering for this course.

LATIN AMERICAN STUDIES MINOR

Consisting of 18 hours, this minor is designed to incorporate perspectives from a wide range of disciplines such as literature, history, women's studies, anthropology and politics. Accordingly, students will take two courses from each of three categories as follows: literature, language and the fine arts; history and philosophy; and the social sciences. The category in which LA 301, Seminar in Latin American Studies, is counted will depend on its topic in a given semester. Courses in addition to those given below may be added as appropriate when they are developed.

Mastery of the Spanish or Portuguese language should be an important goal for those intending to work or to pursue advanced study in an area related to Latin America. For the purpose of this minor students are required, prior to the beginning of the senior year, to attain intermediate-level competency in Spanish or Portuguese as judged by successful completion of the fourth semester of language study or equivalent experience.

COURSES

Courses for the minor may be chosen from among the following:

HI 277 Latin American Nations, 1825 to the Present (3)
HI 373 Modern Latin America (3)
HI 375 United States-Latin American Relations (3)
HI 399 Independent Studies (3)

LS 200 Spanish Conversation (3)
LS 206 Advanced Oral Spanish (3)
LS 204 Spanish American Civilization (3)
LS 307 Spanish American Literature I (3)
LS 308 Spanish American Literature II (3)
LS 309 Contemporary Latin American Literature (3)

MU 304 Afro-Caribbean Music (3)

PH 300 Seminar in Philosophy (3)
PH 333 Seminar in Interdisciplinary Studies (3)

PL 323 Selected Topics in Political Science (3)
PL 324 Third World Politics (3)

MC 316 Special Topics in Mass Communications (3)

LA 301 Seminar in Latin American Studies (3)

(Special topics, seminars, or independent studies courses may be applied to the minor when their content is appropriate and approved in a given semester).

LA 301 SEMINAR IN LATIN AMERICAN STUDIES: (3) Readings about and discussion of issues, figures, movements, or perspectives on Latin America, to accompany independent research by the student. Topics which integrate various forms of study about the Spanish, Portuguese, and French-speaking peoples of the hemisphere will be emphasized. Prerequisites: introductory work in Latin American-related courses or equivalent.

LIBERAL STUDIES PROGRAM

Some students are unable to satisfy their educational goals within the existing structure of academic majors at Westfield State College for several possible reasons:

a) Broad career or educational goals which can only be met by interdisciplinary study.
b) Strong academic interests that cut across departmental lines.
c) A major unavailable in the field of primary interest.

For these students, the flexibility of the Liberal Studies Major offers an opportunity to participate in designing an individual program of major studies which creatively integrates three areas of interest.

In the major, the three areas of concentration are chosen by the student with the approval of the Program Chair. These areas are not to be chosen haphazardly, but should be interrelated when viewed in perspective with the student's educational goals. For example, a student interested in a career in television reporting might choose to combine Communications-Journalism with Media Studies and Political Science; another with a passion for ancient Greek culture might combine Philosophy with History and Mathematics or Art; and the student interested in theatre production might select Speech and Theatre, Business Administration and Music. The possibilities for goal-oriented integrated programs are numerous.

The courses within each area of concentration are chosen by the student with the approval of the Program Chair, and should reflect a coherent, cohesive pattern. In addition, students are encouraged to choose electives in subject areas related to their areas of concentration.

Because of the individualized nature of each major program, special academic strength is expected. Students should have achieved a G.P.A. of 2.5 to be seriously considered for admission.

Students are accepted into the program only with the consent of the Program Chair.

REQUIREMENTS FOR THE B.A. IN LIBERAL STUDIES

1. The College Common Core: 40 hours.

2. The Major, consisting of a primary area of concentration, 18 hours; a secondary area of concentration, 15 hours; and a third area of concentration, 12 hours, for a total of 45 hours.

3. Electives totaling 35 hours.

REGULATIONS

1. There are three (3) areas of concentration in the B.A. in Liberal Studies Major, consisting of at least 18, 15 and 12 hours.
2. The areas of concentration may be selected from specific disciplines or from programs either free-standing or subsumed under a particular major which represent specific and distinct subject matters within a particular discipline.
3. Within each area of concentration, the selection of courses should not be random, but should reflect a coherent pattern designed by the student and approved by the Program Chair.
4. Students are expected to choose areas of concentration which are intellectually complementary.
5. Areas of concentration are restricted to those compatible with a Bachelor of Arts degree, and must be approved by the Program Chair.
6. Introductory level courses acceptable in the major itself are restricted to two courses.

REQUIREMENTS FOR THE B.S. IN LIBERAL STUDIES

The B.S. is designed to be an intellectually coherent interdisciplinary concentration providing study in two professional disciplines as well as a related liberal arts area.

1. The College Common Core: 40 hours.

2. The Major, consisting of three academic areas, two of five courses, one of four courses, with an additional elective course in any one of the areas for a total of 45 hours. No more than two courses on the introductory level can be taken in the entire major.
3. Electives totaling 35 hours.

REGULATIONS

The courses taken must be drawn from upper-level offerings arranged as below:

Two areas chosen from Business Management, Computer Science, and Criminal Justice.

And a third area chosen from Physical Science, Economics, Psychology, Mass Communication, Sociology, Political Science, Regional Planning, Biology, Mathematics, Art, Music, English, History, Philosophy, Modern Foreign Languages, Women's Studies, or Latin American Studies. Appropriate science-oriented Movement Science courses, or Education courses which have significant liberal arts components may be accepted. Such courses can be chosen from a list provided through the Liberal Studies Program.

MASS COMMUNICATION

The objective of the Mass Communication faculty is to provide our students with a strong liberal arts foundation through effective teaching and personal counseling so that each student will be able to develop general perspectives, knowledge, and skills currently employed in the field of communication.

The department faculty offers students the opportunity for more specialized knowledge and skills through the elected concentrations in Communication Management/Marketing, Broadcast Communication, and Journalism.

Graduates of the Mass Communication major have found the curriculum to be a strong foundation for entering graduate school or for entry-level occupations in business, industry, and service organizations.

Graduates work as writers, broadcasters, producers, managers, sales representatives, public relations practitioners, creative personnel, and human resource personnel in virtually all segments of society where effective interpersonal and mass communication knowledge and skills are critical factors of success.

FACILITIES

The department houses a full color television studio, editing suite, darkroom complex, production laboratories, and portable video units. Additionally, the college maintains a student-operated FM stereo radio station.

INTERNSHIPS

The Internship Program in the Department of Mass Communication offers qualified students an opportunity to gain valuable experience with professional mass communication organizations while earning college credit. Experiences vary, depending upon regulations and restrictions that are set by each agency. The Internship Program is divided into three categories: Local, Regional and National, and International Agencies.

Among the available opportunities in public relations/marketing, broadcasting, and journalism are locations in Boston, New York, Hartford, Springfield; London, England; and Dublin, Ireland.

REQUIREMENTS FOR THE MASS COMMUNICATION MAJOR

REQUIRED MAJOR CORE - 18 credits

MC 101	Introduction to Mass Communication (3)
MC 204	Writing for the Mass Media (3)
MC 240	History of Broadcasting (3)
MC 304	Communication Ethics (3)
MC 312	Mass Media Criticism (3)
EN 275	Journalism I (3)

STUDENTS MUST ELECT ONE OF THE FOLLOWING CONCENTRATIONS:

COMMUNICATION MANAGEMENT/MARKETING - 21 credits

MG 203	Principles of Public Relations (3)
MC 303	Propaganda, Persuasion and the Mass Media (3)
MC 320	Foundations of Media Research (3)
MC 340	Organizational Communications (3)
Electives - Nine (9) credits	

BROADCAST COMMUNICATION - 21 credits

MC 301	Introduction to Television Production (3)
MC 307	Broadcast Law (3)
MC 330	Broadcast Operations (3)
MC 350	Film as Mass Communication (3)
Electives - Nine (9) credits	

JOURNALISM - 21 credits

MC 202 Introduction to Photography (3)
MC 309 Broadcast Journalism (3)
EN 375 Journalism II (3)
EN 394 News Editing (3)
Electives - Nine (9) credits

ELECTIVE LIST

EN 231 History of Journalism (3)
EN 367 Film Theory and Criticism (3)
EN 377 Feature Writing (3)
EN 378 Writing for Television (3)
EN 379 News Media Seminar (3)
EN 384 Special Topics in Journalism (3)
EN 393 History and Development of the Motion Picture (3)
EN 395 Speaking on Radio and Television (3)

FA 211 Visual Communication (3)

MC 201 Mass Media in the Classroom (3)
MC 302 Seminar in Television Production (3)
MC 306 International Media (3)
MC 311 Stereotyping in the Mass Media (3)
MC 314 Senior Thesis (3)
MC 316 Special Topics in Mass Communication (3)
MC 318 Production of Instructional Media (3)
MC 333 Television Workshop (3)
MC 345 TV/Film Production Analysis (3)
MC 399 Independent Study (3)

MG 221 Business Management (3)
MG 231 Marketing Management (3)
MG 238 Advertising Techniques and Strategies (3)
MG 335 Marketing Communications (3)

(Concentration requirements may be used as electives)

FIELD PLACEMENT COURSES

The following courses require departmental and/or faculty approval: (credits earned for MC 205 and/or MC 305 may not be substituted for the Required Major Core, Concentration Requirements, or Concentration Electives).

MC 205 Public Relations Aiding (1)
MC 305 Mass Communication Internship (1 - 15)

MINOR IN MASS COMMUNICATION

Students electing a minor in Mass Communication must complete three (3) courses from the Required Major Core and three (3) courses with MC designation.

COURSES

MC 101 INTRODUCTION TO MASS COMMUNICATIONS (3) A survey course in mass communication. Areas of discussion include basic media theory, history of the mass media, basic regulatory systems, and an introduction to the role of media in society.

MC 201 MEDIA IN THE CLASSROOM (3) Designed to acquaint the student with the characteristics of mass media as an instructional tool. Major emphasis will be placed on the use of television, film, and still photography in an educational setting. Evaluation of software will also be covered.

MC 202 INTRODUCTION TO PHOTOGRAPHY (3) Examines various techniques and applications of photography. Areas of study include camera operation, film selection, lenses, filters, lighting, composition, portraits, black and white processing and printing, and manipulation of the image. The history of the medium and its communicative properties are also discussed.

MC 203 PRINCIPLES OF PUBLIC RELATIONS (3) Examines various principles and processes of public relations. Areas of discussion include organizational aspects, the public relations environment, fact finding, planning and programming, implementation, and evaluation. Particular attention will be given to audience targeting.

MC 204 WRITING FOR MASS MEDIA (3) An examination of the manner in which messages are constructed for a variety of mass communication formats. Study will be conducted in areas such as print and broadcast journalism, advertising, organizational and political communication, as well as the visual dimensions of film and video. Students will be expected to develop both critical and practical skills in message design, and visual, written, and oral communication. Prerequisite: MC 101.

MC 205 PUBLIC RELATIONS AIDING (1) A "hands-on" experience under supervision which affords the student aide opportunities to actively participate in some aspects of Public Relations work. May be taken concurrently with MC 203 or at a later time. Individually arranged schedule. Prerequisite: MC 101.

MC 230 FUNDAMENTALS OF AUDIO PRODUCTION (3) This course offers a focused study of principles in sound generation and reproduction. Included is a chronology of audio recording history along with some of the various effects of audio technology on the sounds, voices, and music of this century. Studio technology and methods of recording will be discussed and samples of recorded sound from various eras of recording history will be demonstrated. Practical exercises will be included involving the procedures of voice recording and tape editing. Prerequisite: MC 101.

MC 240 HISTORY OF BROADCASTING (3) Offers an historical and critical perspective of the development of the broadcasting industry in the United States. Specific areas of coverage include attempts at regulation, early educational broadcasting, the rise of commercialism, the history of networks, and radio and television's "Golden Ages."

MC 243 PUBLIC RELATIONS WRITING (3) Covers public relations planning, audience analysis, and construction of motivational messages. Students will work on a variety of assignments that emphasize the design and production of effective public relations material for press, publications, and electronic media. Prerequisites: MC 203 and MC 204.

MC 301 INTRODUCTION TO TELEVISION PRODUCTION (3) Topics include lighting, camera operation, directing, switching, audio control, and general operation and set up of a studio. Each student will be required to write and direct a ten-minute color video tape production. All talent and production crews will be selected from class members. The class is limited to 12 students. Prerequisite: permission of instructor.

MC 302 SEMINAR IN TELEVISION PRODUCTION (3) Designed to give the student an opportunity to conduct in-depth study into particular areas of television production. Students may choose to research a facet of television production or may select one of many genres used by the medium.Students will be required to prepare a formal paper and a 30-60 minute television production for discussion by the seminar. Participation in the productions of the College and assignments at a local broadcast station are requirements of the course (subject to arrangement with the station). Prerequisite: MC 301 and permission of instructor.

MC 303 PROPAGANDA, PERSUASION, AND THE MASS MEDIA (3) Activity involves students in monitoring, selecting and examining advertisements, speeches, editorials, jingles, etc., for the purpose of analyzing and identifying the many techniques and types of propaganda in the media. Details the "Five Pearls of Persuasion" common to media marketing, uses historical models and current case studies on media impact, develops basic analytic skills for testing credibility of media messages. Prerequisite: MC 101.

MC 304 COMMUNICATION ETHICS (3) Examines ethical considerations when applied to the following areas of mass communication: laws and regulations, advertising, delivery systems, institutions, and social impact. Prerequisite: MC 101.

MC 305 MASS COMMUNICATION INTERNSHIP (1-15) Students, through prior arrangement, will intern at various local, regional, or national media outlets.

MC 306 INTERNATIONAL MEDIA (3) The course will examine various international media systems. Specific countries included are France, West Germany, Belgium, The Netherlands, Great Britain. Areas of discussion will include financing, control, and corporate structure. This course may be elected as a field study. Prerequisite: MC 101.

MC 307 BROADCAST LAW (3) Examines the decisions of the Federal Communications Commission, the Federal Trade Commission, and the Supreme Court that deal directly with mass media. Case studies of specific decisions will be examined as well as the role of the government in broadcasting. Prerequisite: MC 101.

MC 309 BROADCAST JOURNALISM (3) Areas of discussion to include effective utilization of the immediacy of radio and television, use of audio and video-tape for on the spot coverage, the relationship of word and picture, visual and aural redundancy, adapting other media such as newspapers and wire services to the electronic media, and the role of camera work in generating effective news delivery. Prerequisite: MC 101.

MC 311 STEREOTYPING IN THE MASS MEDIA (3) Examines how various minority groups are portrayed in the media. Includes an examination of the relevant research in media stereotyping and an analysis of the roles of the industry, the government and the public in formulating prevalent stereotypes used in the media. Prerequisite: MC 101.

MC 312 MASS MEDIA CRITICISM (3) Examines criticism of the mass media. The focus of the course will be on such broadcast media as radio and television, the various critical approaches which have been used and the relevance of those approaches today. Students will explore such issues as the early emphasis on appreciation and conventional program reviewing, more recent attempts to use statistical procedures in program analysis, and the collective nature of the media. Prerequisite: MC 101.

MC 314 SENIOR THESIS (3) Offers the student an opportunity to conduct specialized research in mass communication. Evaluation of the work will be conducted by the entire department. An oral defense of the project is required as well as public dissemination of the final written report. Prerequisite: MC 320, senior status, and permission of the department.

MC 316 SPECIAL TOPICS IN MASS COMMUNICATION (3) Examines selected media issues, perspectives, or themes chosen for their timely interest. Prerequisite: MC 101.

MC 318 PRODUCTION OF INSTRUCTIONAL MEDIA (3) Designed to give the student a background of information in the production of posters, charts, graphs, exhibits, models, devices, photographs (sets), transparencies, tape recordings, and the fundamentals of motion picture production. Limited to 16 students.

MC 320 FOUNDATIONS OF MEDIA RESEARCH (3) Examines the various methodologies of media research. Topics will include analysis of various ratings systems, audience survey methods, content analysis, uses and gratifications, and evaluation of current media research. Prerequisites: MC 101 or introductory management course.

MC 325 PHOTOJOURNALISM (3) Course examines how primary photographic skills can be combined with language and graphics to observe or interpret people, things, and events for one of several forms of publication. Emphasis will be placed on informative, interpretive, and archival characteristics as well as the role of photojournalism in mass communication. Prerequisite: MC 202 and EN 275.

MC 330 BROADCAST OPERATIONS (3) Examines the field of broadcast operations. Areas of discussion include staffing, ENG assignments, remotes, programming, FCC forms and regulations, and various responsibilities of broadcast management. Prerequisite: MC 101 or introductory management course.

MC 333 TELEVISION PRODUCTION WORKSHOP (3) Provides students with advanced experience in preparing, structuring, rehearsing, producing, post production, evaluation, and analysis of their own programming. Emphasis will be placed on the subject matter beyond the material covered in MC 301 and MC 302. Prerequisite. MC 302.

MC 335 FUTURE STUDIES IN COMMUNICATION (3) An analysis of future trends in communication, especially with regard to the social and economic effects on people. Areas of discussion include the general pattern of merging functions in the telecommunications and computer industries, and the consequences for dependent systems such as broadcasts, cable, satellite, and microwave services. Other new technologies such as videotext, high resolution television, interactive computers, optical memory systems, small size direct broadcast satellite receiving equipment, and office and factory automation systems will also be discussed and examined in terms of intrinsic value and potential market and social impact. Prerequisite: MC 101.

MC 336 ADVANCED PUBLIC RELATIONS (3) Focuses on the public relations practitioner as communications manager, emphasizing the counseling function of PR in formulating strategies and policies in corporate communications. Prerequisite: MC 203 or permission of the instructor.

MC 340 ORGANIZATIONAL COMMUNICATIONS (3) Concentrates on the process of creating and exchanging messages within a network of relationships in an organization; examines the organization's in-house and public relations as they influence adaptation to the dynamic environment. Includes case studies and current news media reports of communications problems and remedies as applications of communications theory. Prerequisite: MC 203.

MC 345 TV/FILM PRODUCTION ANALYSIS (3) An examination of television and film productions in terms of their managerial, financial, organizational and logistical requirements. Students will analyze and develop cost-effective models for use in television and film production management. Prerequisite: MC 301.

MC 350 FILM AS MASS COMMUNICATION (3) Examines film from a mass communication perspective. Particular emphasis will be placed on the cultural role of film, including economic factors as well as sociological, psychological, political and critical dimensions. An analysis of the impact of technology on the industry will also be conducted. Prerequisite: MC 101.

MC 399 INDEPENDENT STUDY (3-6) Independent study of topics in mass communication under faculty supervision. Prerequisite: permission of instructor and department chair.

MATHEMATICS

Mathematics is a subject with a history which stretches for thousands of years. It has been a major cultural force in Western civilization, serving as the foundation for scientific reasoning and forming the core of the major theories of physical science, as well as determining the direction and content of much philosophic thought. It has supplied substance to economic and political theories, has fashioned major painting, musical, architectural, and literary styles, has fathered our logic, and has furnished some of the best answers we have to fundamental questions about the nature of man and his universe.

Since Mathematics can be studied both as a pure discipline and as an applied discipline, the Department of Mathematics offers a major in mathematics, providing a foundation of pure and applied mathematics (suitable, among other things, for the preparation of high school teachers of mathematics). In addition, we provide courses which satisfy the college Common Core. Seventy percent of the faculty in this department hold terminal degrees in their field.

Students who major in Mathematics may wish to consider careers in actuarial science, secondary education, or further graduate work in mathematics. The study of mathematical sciences also provides a strong foundation for further professional education in a variety of areas.

Also, our Actuarial Preparatory Program recommends a sequence of courses in mathematics, economics, and business administration which are designed to prepare students for successful completion of the first three actuarial examinations.

REQUIREMENTS FOR MATHEMATICS MAJORS

Requirements (36 credits)

MA 105 Calculus I (3)
MA 106 Calculus II (3)
MA 118 Linear Algebra (3)
MA 201 Calculus III (3)
MA 202 Calculus IV (3)
Seven (7) additional 300-level mathematics courses

CERTIFICATION FOR TEACHER OF MATHEMATICS (5-9, 9-12)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Students wishing to be certified to teach Mathematics at the Middle or High School levels must complete the following:

All courses for the Mathematics major
The 18-credit secondary education sequence, described in the Education Department listings
MA 337 Foundations of Secondary and Middle School Mathematics

COURSES

MA 103 COLLEGE ALGEBRA (3) First of a two-course sequence designed to prepare students for Calculus. Topics include the real number system; inequalities and absolute values: introduction to functions; exponents; linear, polynomial and rational expressions; introduction to graphing: exponential and logarithmic functions. Prerequisite: High School Algebra I.

MA 104 PRECALCULUS (3) Topics covered include an in-depth discussion of functions; graphing; exponential and logarithmic functions; trigonometric functions; and analytic geometry and conic sections. Prerequisites: High School Algebra II or MA 103.

MA 105 CALCULUS I (3) A standard first semester course in calculus. Topics include functions and limits, the derivative, continuity of functions, differentiation of functions, related rates, differentials and approximations, maxima and minima with applications, the mean value theorem, antiderivatives, the definite integral, and the fundamental theorem of calculus. Prerequisites: High School Algebra, Geometry, Trigonometry, or MA 104.

MA 106 CALCULUS II (3) A continuation of Calculus I. Topics include evaluation of definite integrals, area, volume, arc length, applications of definite integrals, transcendental functions, techniques of integration, indeterminate forms, improper integrals, Taylor approximations, and an

introduction to numerical methods. Prerequisite: MA 105 or equivalent.

MA 108 ELEMENTARY STATISTICS (3) Intended to provide knowledge and computational skill in statistical procedures necessary to apply research techniques to problems in education, psychology, business and social sciences. The topics include nature of elementary statistics, nature of probability, sampling and sampling distributions, problems of estimations, tests of hypotheses, regression and correlation. Elective for non-mathematics majors. Prerequisite: High School Algebra II or MA 103.

MA 110 MATHEMATICAL EXPLORATIONS (3) An exploration of topics from elementary theoretical mathematics, including some of, but not limited to, the following topics: sets, logic, number systems, geometry, elementary number theory, and counting. Designed to give the liberal arts major an appreciation of mathematical reasoning and content. MA 110 and 111 may be taken in any order. Prerequisite: High School Algebra II or MA 103.

MA 111 MATHEMATICAL APPLICATIONS (3) A selection of topics from applied mathematics, including some of, but not limited to, the following topics: probability, statistics, solutions of linear equations and systems of linear equations, linear programming, computer programming, and consumer mathematics. Designed to give the liberal arts major an appreciation of the way in which mathematics can be applied in the real world. MA 110 and 111 may be taken in any order. Prerequisite: High School Algebra II or MA 103.

MA 115 MATHEMATICS FOR BUSINESS AND SOCIAL SCIENCES (3) A study of selected topics with particular emphasis on applications in business and social sciences. Topics include sets, probability, solution of equations, systems of linear equations, introduction to linear programming and, as time permits, an introduction to calculus. Prerequisite: High School Algebra II or MA 103.

MA 116 INTRODUCTION TO MATHEMATICAL SYSTEMS (3) Intended as a first course for students planning to major in mathematics. Emphasis in the course is on the structure of mathematical systems and methods of proof. Topics to be considered: logic and the nature of proof, sets, number systems, relations and functions, mathematical systems including groups and fields. Prerequisite: High School Algebra, Geometry and Trigonometry.

MA 118 LINEAR ALGEBRA (3) Study of fundamental concepts of linear algebra over the field of real numbers. Topics include solution of simultaneous linear equations, vector spaces, linear independence and dependence, basis, subspaces, linear transformations and matrices and their properties. Prerequisite: MA 104 or equivalent.

MA 127 CALCULUS WITH APPLICATIONS FOR BUSINESS AND SOCIAL SCIENCE (3) A study of differential calculus with an emphasis to business and economics. Topics will include: a review of algebra and functions, mathematical modeling, limits and differentiation, techniques of differentiation, max/min problems, graphing, business application, approximation, implicit differentiation and related rates, exponential and logarithmic functions, and growth models in business and economics. Prerequisite: High School Algebra and Geometry or MA 104.

MA 150 FOUNDATIONS/SETS AND LOGIC (3) Introductory course in the foundations of mathematics. Topics will include sets, logic, and problem solving. The topics of place value, relations, and functions will also be introduced. Students will develop a conceptual understanding of the course material and, through work with mathematics manipulatives, will explore the pedagogy of the subject. Prerequisite: High School Algebra II or MA 103.

MA 201 CALCULUS III (3) A continuation of Calculus II. Topics include infinite series, conic sections, polar coordinates, parametric equations, Cartesian coordinates in R3, Vectors in R2 and R3, curvature, acceleration, vector valued functions and curvilinear motion, and surfaces in R3. Prerequisite: MA 106.

MA 202 CALCULUS IV (3) A continuation of Calculus III. Topics include cylindrical and spherical coordinates, functions of two or more variables, partial differentiation, directional derivatives and gradients, Lagrange multipliers, iterated integrals, double and triple integrals with applications, vector fields, line integrals and independence of path, Green's Theorem, divergence, Stokes Theorem, and if time permits, an introduction to differential equations. Prerequisite: MA 201.

MA 203 MATHEMATICS IN THE ELEMENTARY SCHOOL (3) Designed to reinforce the mathematical background and to enhance the effectiveness of the prospective elementary teacher. An integral part of the course is an investigation of the content, procedures, and materials of modern curricula for the elementary school. Prerequisite: MA 150

MA 220 DISCRETE STRUCTURES (3) An introduction to discrete mathematical structures for Computer Science: discrete algebraic structures, algorithms and applications to structural programming and the analysis of algorithms; graphs, digraphs and applications to electrical and scheduling network; lattices, Boolean algebra and applications to switching theory. Prerequisite: CS 120

and MA 118.

MA 237 MATHEMATICS TUTOR TRAINING SEMINAR (1) A training seminar for upper-class students involved with the Mathematics Peer Tutoring Program to meet the following three objectives: 1) presenting mathematics with understanding and flexibility; 2) recognizing, diagnosing, and remediating common math misconceptions, 3) becoming more sensitive to some of the affective issues arising both in tutoring relationships and for students struggling with mathematics. Prerequisite: MA 106, permission of instructor, and concurrent participation in the mathematics tutoring program. May be elected only once for credit.

MA 251 FOUNDATIONS/GEOMETRY (3) The study of the foundations of Geometry and Mensuration. Topics will include topological, projective, and Euclidean properties in 2- and 3- space; the development of the concept of measure in 2- and 3- space; and the introduction of measurement formulas. Students will develop a conceptual understanding of the course material and will work with mathematics manipulations. Prerequisite: MA 150 or equivalent.

MA 252 FOUNDATIONS/PROBABILITY AND STATISTICS (3) The study of the foundations of Probability and Statistics. Topics will include techniques for collecting, tabulating, and analyzing data, using probability principles, construction of histograms, hypothesis testing, and the formulation of inferences using principles of statistics. Students will develop a conceptual understanding of the course material and will work with mathematics manipulations. Prerequisite: MA 150 or equivalent.

MA 253 FOUNDATIONS/NUMBER SYSTEMS (3) The study of the real number system and its subsets. Topics will include the structure and properties of the whole, integer, rational and real number systems and the application of four-function calculators to problem solving and estimation. Students will develop a conceptual understanding of the course material and will work with mathematics manipulations. Prerequisite: MA 150 or equivalent.

MA 301 MODERN ABSTRACT ALGEBRA I (3) A study of groups, rings, integral domains and fields, with special emphasis on the real and complex fields. Required of all mathematics majors. Prerequisite: MA 118.

MA 302 MODERN ABSTRACT ALGEBRA II (3) Polynomial rings, vector spaces, linear transformations, elementary theory of matrices and determinants. Required of all mathematics majors. Prerequisite: MA 301.

MA 304 DIFFERENTIAL EQUATIONS (3) Geometric and physical meaning of differential equations. Theory and solution of first, second and higher order linear and non-linear differential equations. Initial and boundary value problems. Finite difference equations. Prerequisite: MA 202 and MA 118.

MA 306 MODERN GEOMETRY I (3) An integrated course consisting of intuitive, synthetic, and analytic approaches to Euclidean and other geometries. Topics will include axiomation foundations, finite geometries, non-Euclidean geometries, and synthetic projective geometry. Prerequisite: MA 118.

MA 307 MODERN GEOMETRY II (3) Geometric and algebraic invariants, groups of transformations, topological, projective, affine and Euclidean transformations. Prerequisite: MA 306.

MA 308 INTRODUCTORY ANALYSIS (3) Topology of real numbers, Cauchy sequences, metric completeness, continuity, compactness, connectedness. Sequence and series and uniform convergence of infinite series. Derivatives and define integrals. Prerequisite: MA 202.

MA 309 INTRODUCTORY TOPOLOGY (3) A simple, thorough survey of the elementary topics of point-set topology of the real line and plane topological spaces; metric spaces; mappings; connectedness; compactness. Prerequisite: Junior/Senior status in the major or permission.

MA 311 THEORY OF NUMBERS (3) Properties of integers including congruences, primes and factorization, continued fractions, quadratic residues, linear diophantine equations and number theoretic functions. Prerequisite: Junior/Senior status in the major or permission.

MA 323 COMPLEX ANALYSIS (3) Algebra of complex numbers, analytic functions, Cauchy Riemann conditions, conformal mapping, line integrals, Cauchy integral formula, residue integration, Taylor and Laurent series. Prerequisite: MA 202.

MA 333 APPLIED STATISTICS AND EXPERIMENTAL DESIGN (3) A study of the application of computer programming to statistical procedures employed in empirical research and the interpretation of numerical results. Topics in statistics include: introduction to descriptive and inferential statistics, hypothesis testing, parametric and non-parametric tests (correlation, regression, the t-test, analysis of variance, and factor analysis). The underlying assumptions of several experimental designs will also be examined. Prerequisite: MA 108 or equivalent, and knowledge of at least one scientific programming language.

MA 334 OPERATIONS RESEARCH AND MODELING (3) A study of mathematical modeling and of the models of interest in operations research, which may include distribution problems, linear programming, the simplex method and applications. CPM, network problems, non-linear programming problems, Markov chains, queuing models, and simulation. Prerequisite: MA 118, MA 108, and knowledge of at least one programming language.

MA 335 INTRODUCTION TO NUMERICAL METHODS (3) Intended for majors in mathematics or computer science. Uses the FORTRAN language for numerical computation but no previous knowledge of FORTRAN is assumed. Standard algorithms of numerical analysis will be chosen from: systems of linear equations, differential equations, integration, interpolation, non-linear equations. Prerequisites: MA 118, 201 and knowledge of at least one programming language.

MA 337 FOUNDATIONS OF SECONDARY AND MIDDLE SCHOOL MATHEMATICS (3) Designed to build upon student's mathematics background, relating students' mathematical knowledge to understanding and teaching the middle or secondary school mathematics curriculum. Topics to be considered are: geometry, algebra, basic skills, number theory, probability and statistics and the use of calculators and computers in the classroom. Prerequisites: Junior/Senior status in the major or permission.

MA 340 MATHEMATICAL STATISTICS I (3) Covers mathematical probability theory including: review of set theory, principles of counting, sample spaces and probability functions, random variables, joint probability functions, discrete distributions and continuous distributions. Prerequisite: MA 202.

MA 341 MATHEMATICAL STATISTICS II (3) A systematic treatment of theoretical mathematical statistics assuming preparation in post-calculus probability theory. Topics covered include estimation, hypothesis testing, linear models, non-parametric methods. Prerequisite: MA 340.

MA 399 INDEPENDENT STUDY (1-6) Independent study of topics in mathematics under careful faculty supervision. Intended for capable students to broaden their mathematics program or to gain depth in a particular area of interest. Prerequisite: permission of instructor and Department Chair is required.

MOVEMENT SCIENCE, SPORT AND LEISURE STUDIES

The Department of Movement Science, Sport and Leisure Studies offers a major in Movement Science leading to a Bachelor of Science degree. The department also offers a diverse selection of elective courses (theory and activity) designed to meet the needs and interests of today's students.

SCOPE OF THE MAJOR PROGRAM

The undergraduate major program prepares the student with a foundation in the movement sciences enabling the student to pursue several career alternatives and/or graduate study. In addition to the twenty-eight (28) semester hours in major courses, Movement Science majors are required to complete a concentration in either Athletic Training, Health/Fitness, Recreation, Physical Education Teaching Certification or Wilderness Leadership. Each concentration requires that the student satisfactorily complete eighteen (18) credits of specific courses and a six credit internship.

Majors may choose more than one of the five concentrations or may, under advisement, and in addition to one of the five concentrations offered, design an individual program in such areas as sports journalism, sports broadcasting, or sports management.

The Movement Science Department also offers a minor in Wilderness Leadership.

MAJOR PROGRAM REQUIREMENTS

All Movement Science Majors must complete the twenty-eight (28) credits of courses specified below and at least one twenty-four credit concentration offered by the department.

MAJOR CORE CLASSES

- PE 104 Freshman Seminar (1)
- PE 105 Foundations of Movement Science I (3)
- PE 106 Foundations of Movement Science II (3)
- BI 237 Anatomy and Physiology I (3)
- BI 239 Anatomy and Physiology II (3)
- HE 100 Health Related Fitness (3)
- PE 202 Introduction to Motor Learning (3)
- PE 203 Motor Development and Behavior (3)
- PE 204 Analysis of Motion (3)
- PE 205 Physiology of Exercise (3)

CONCENTRATIONS

Athletic Training

- HE 212 Concepts of Nutrition (3)
- PE 230 Therapeutic Modalities (3)
- PE 309 Sports Medicine II (3)
- PE 311 Adaptive Physical Education (3)
- PE 315 Exercise Injuries: Prevention and Treatment (3)
- HE 103 Principles of Health and Wellbeing (3)
- PE 353 Clinical Experience (6)

General Recreation

- RE 101 Recreation Skills (3)
- RE 102 Introduction to Recreation (3)
- RE 201 Techniques of Recreational Leadership (2)
- RE 301 Outdoor Recreation (3)

One of the following:

- RE 320 Organization and Administration of Recreation (3)
- PE 321 Supervising Sports/Fitness Programs (3)

As well as:

- PE 109 - 188 Selected Skill Courses (4)
- RE 351 Internship in Recreation (6)

Health /Fitness
HE 103 Principles of Health and Wellbeing (3)
HE 212 Concepts of Nutrition (3)
PE 182 Relaxation Techniques (1)
One of the following:
PE 181 Aqua Aerobics (1)
PE 185 Swimming for Fitness (1)
One of the following:
PE 162 Strength Training and Conditioning (1) or PE 109 Aerobics
PE 114 Fitness for Adults (1)
As well as:
PE 315 Exercise Injuries: Prevention and Treatment (3)
PE 321 Supervising Sports/Fitness Programs (3)
HE 351 Internship in Health (6)

Teacher of Physical Education (Elementary or Secondary)

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

PE 103 Introduction to Teaching Physical Education (1)
PE 260/PE 261 Analysis of Teaching Selected P.E. Skills I (Elementary or Secondary) (4)
PE 262 Analysis of Teaching P.E. Skills II (2)
PE 302 Measurement and Evaluation in P.E. (3)
PE 311 Adaptive Physical Education (3)
PE 313 (PE 314) Physical Education Teaching Methodology: Elementary (Secondary) (3)
PE 316 Curriculum Planning and Implementation in P.E. (2)
PE 350 Practicum (Elementary or Secondary) (6)

Wilderness Leadership
PE 199 Wilderness Experiences (3)
PE 245 Adventure Challenge Instructor (3)
PE 250 Techniques of Wilderness Leadership (3)
PE 398 Internship Wilderness Leadership (6)
HE 101 First Aid and Emergency Care (1)
One of the following:
BI 100 Natural History of Massachusetts (2)
BI 201 General Ecology (3)
One of the following:
RE 301 Outdoor Recreation (3)
ED 312 Outdoor Education (3)
As well as three Activities from the following list:
PE 137 Skin and Scuba Diving
PE 138 Boating and Canoeing
PE 139 Kayaking
PE 155 Ski Touring and Snowshoeing
PE 164 Bicycling
PE 167 Camping Skills
PE 172 Orienteering
PE 173 Initiative Games and Ropes
PE 180 Rock Climbing
PE 182 Life Guard Training
PE 184 Water Safety Instructor

To be accepted into a concentration within the major, a student must attain a QPA of 2.5 in the major core area (28 credits). Once accepted into a concentration and in order to be accepted into an internship or clinical experience, a student must attain a QPA of 2.5 in the courses listed in the concentration.

Candidates for an internship, clinical experience, or teaching practicum must complete an application (available from advisor) and submit three (3) favorable recommendations from department faculty and two (2) favorable recommendations from supervising practitioners. Additionally, the student must submit a self evaluation which includes:

a. reasons for choosing the concentration.
b. contributions made or projected to the field.
c. strengths and/or weaknesses.
d. a resume listing activities of a professional nature.

The recommendations from the faculty and cooperating practitioners should provide evidence of proficiency as a leader and address perceived growth and contribution to the field of study.

Students seeking certification to teach physical education must also meet any standards mandated by the State Department of Education.

MINOR IN WILDERNESS LEADERSHIP

The Movement Science Department also offers a minor in Wilderness Leadership. The requirements are the same as for the Wilderness Leadership Concentration, except an internship is not required, nor is completion of the major core required.

COURSES

PE 103 INTRODUCTION TO TEACHING PHYSICAL EDUCATION (1) This course will provide initial exposure to school physical education programs and the opportunity to integrate concepts of the movement science courses with the curriculum in the schools. Field-based pre-practicum (30 clock hours) with classroom follow-up. Prerequisite: PE 105 or PE 106.

PE 104 FRESHMAN SEMINAR/MOVEMENT SCIENCE (1) Designed to provide the student with an introductory study and critical analysis of the professional opportunities in movement science.

PE 105 FOUNDATIONS OF MOVEMENT SCIENCE I (3) Designed to provide the student with the opportunity to examine the historical and philosophical foundations of human movement and sport.

PE 106 FOUNDATIONS OF MOVEMENT SCIENCE II (3) Designed to provide the student with the opportunity to examine the sociological and psychological foundations of human movement and sport.

PE 199 WILDERNESS EXPERIENCES (3) An introduction to wilderness activities which provide participants with a degree of challenge and excitement. Will include current information on the most popular activities, with attention given to the history, equipment needs, travel arrangements, safety and first aid procedures, physical skills, liability problems and environmental concerns. The theories behind these activities and the organizational methods for conducting them, will also be included.

PE 202 INTRODUCTION TO MOTOR LEARNING (3) The study of significant variables which influence motor learning, i.e., transfer, cues, practice, reminiscences, perception, reaction time, motivation, reinforcement, etc. and the analysis of selective variables which affect the acquisition of motor skills. Prerequisite: PY 101

PE 203 MOTOR DEVELOPMENT AND BEHAVIOR (3) The scientific study of developmental patterns (psychomotor, cognitive and affective domains) of basic motor skills and structural components, growth processes and interrelationships/interactions of structure to function that influence motor behavior - infancy to old age. Prerequisite: PY 101

PE 204 ANALYSIS OF MOTION (3) Science of human motion, analysis of leverage in body movement and problems of readjustment in relationship to body mechanics and to physical activity as it is related to an understanding of skillful, efficient and purposeful human motion. A lab component is included. Prerequisite: BI 237.

PE 205 PHYSIOLOGY OF EXERCISE (3) Designed to investigate and understand the role that exercise (muscle activity) plays on the functioning of the human body and how the body responds to exercise. A laboratory component is included. Prerequisite BI 239

PE 215 DANCE FUNDAMENTALS (3) The course is designed to introduce the student to a variety of dance forms. The student will be provided the opportunity to gain knowledge of the history of dance, the technical elements of selected dance forms and dance composition. The course meets for two hours of lecture and two hours of technique laboratory per week for the semester.

PE 221 EXERCISE PROGRAMS FOR BUSINESS AND INDUSTRY (3) Analysis of physiological principles and exercise prescriptions for fitness, weight control and health programs. Provides an understanding of business/ corporate/industrial fitness/wellness programs. Prerequisite: BI 237

PE 230 THERAPEUTIC MODALITIES (3) Examines the use of therapeutic modalities as a component of athletic injury reconditioning programs. Theory, clinical applications and legal aspects are considered. Two lectures, two hour laboratory, weekly. Prerequisites: BI 237, 239, and PE 204.

PE 245 ADVENTURE CHALLENGE INSTRUCTOR (3) The operation, management and design of an Adventure Challenge Ropes Course. This includes liability responsibilities, group process, construction and maintenance, safety procedures and technical skill. Satisfactory completion will result in one year certification of Adventure Challenge Instructor at Westfield State College.

PE 250 TECHNIQUES OF WILDERNESS LEADERSHIP (3) Techniques of planning, developing, organizing, and and conducting an extended Wilderness Experience. Leadership training will also include first aid, rescue, navigation and legal responsibilities of these experiences. Prerequisite: PE 199.

PE 260 ANALYSIS OF TEACHING SELECTED PHYSICAL EDUCATION SKILLS/ELEMENTARY (4) This course provides the student with the knowledge and methodology of selected activities appropriate for the elementary school child. The course will include locomotor, non-locomotor, manipulative, body management and specific sports skills as taught through games of low organization, lead-up activities to games of higher organization and rhythmics. Consideration will be given to analysis of performance organization and progression. The course will consist of two (2) hours of lecture and four (4) hours of laboratory. Prerequisites: PE 105 and 106.

PE 261 ANALYSIS OF TEACHING SELECTED PHYSICAL EDUCATION SKILLS/SECONDARY (4) This course provides the student with the knowledge and methodology of teaching games, sports and physical activities in a secondary physical education program. The course will include team and individual sports, non-traditional games and dance/rhythmic activities. Emphasis will be placed on analysis of performance, sequence and progression of skills and lead-up games, and effective organizational techniques applied in teaching these selected activities. This course will consist of two (2) hours of lecture and four (4) hours of laboratory. Prerequisites: PE 105 and 106.

PE 262 ANALYSIS OF TEACHING SELECTED PHYSICAL EDUCATION SKILLS II (2) Provides the student with the knowledge and methodology appropriate for selected physical education skills: aquatics, tumbling and gymnastics, and track and field. Emphasis will be placed on analysis of performance, sequence, progression of skills and effective organizational techniques applied in teaching these activities. Will include safety procedures. Prerequisites: PE 260 or 261.

PE 301 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (3) Philosophy, program planning and methods of teaching children, guided observational experiences of children in schools, presentation of activities suitable in elementary school programs.

PE 302 MEASUREMENT & EVALUATION IN PHYSICAL EDUCATION (3) This course is designed to provide the student with an opportunity to gain knowledge of elementary statistical techniques and measurement procedures applicable to the discipline of physical education. Students will be expected to develop competency in the selection, development, and administration of valid testing and evaluation programs in physical education. A pre-practicum fieldwork experience of 30 clock hours is a requirement. Prerequisite: PE 313 or 314 or permission.

PE 304 PSYCHOLOGY OF COACHING (3) This course concentrates on the principles and techniques applicable to the coaching of sports at the elementary and secondary levels.

PE 309 SPORTS MEDICINE II (3) The study of advanced techniques in the evaluation of and treatment of athletic injuries with special emphasis upon the theories and principles of tissue injury and repair. The course includes study of the principles of and the construction of programs for athletic fitness, protective and rehabilitative devices, and the underlying physics, physiological effects, and determination of proper care and use of advanced therapeutic modalities. Prerequisite: PE 204, HE 210, PE 302 or written permission of instructor.

PE 311 ADAPTIVE PHYSICAL EDUCATION (3) The course will cover scientific techniques used in assessment, identification, skill analysis and program implementation for special needs students. Consideration will be given to characteristics, needs and related problems associated with handicapping conditions such as retardation, learning disabilities, behavioral disorders, orthopedic disabilities, visual and hearing impairment, chronic illnesses, bilingual and multicultural problems of children and their integration into physical education programs. Special attention will be given to the impact of federal and state regulations as they relate to adapted and mainstreamed physical education. Fifteen (15) hours of field work required. Prerequisite: PE 204

PE 312 MOVEMENT AND MUSIC WORKSHOP (3) Creative teaching in movement and music. Course will focus on movement principles and Orff-Schulwerk design for creativity in music. There will be application of the movement principles in Movement Education Program and the design for creativity in music toward the development of elemental experiences in music (sound), rhythm movement, and word. The culmination of activities will lead to the interdisciplinary application of movement, music and literature in the development of sensitivity of expressional media through the creative teacher. Prerequisite: Junior or senior standing or consent of instructor.

PE 313 PHYSICAL EDUCATION TEACHING METHODOLOGY: ELEMENTARY (3) Analysis of performance and methods of teaching selected motor activities for the elementary level. Included will be growth and development as it relates to program planning and implemen-

tation, class management, teaching styles, formulation of goals and objectives through lesson and unit plans, sequencing and progression for teaching skills, fundamental motor patterns and game usage. A thirty hour pre-practicum at the elementary level is required. Prerequisite: PE 202, PE 262.

PE 314 PHYSICAL EDUCATION TEACHING METHODOLOGY: SECONDARY (3) Analysis of skill performance and methods of teaching physical education in the secondary school. Will include organization, sequence and progression for teaching skills, formulation of objectives and goals through lesson and unit plans, evaluation of lessons, class management and teaching styles. A thirty (30) hour pre-practicum at the secondary level is required. Prerequisite: PE 202 and PE 262.

PE 315 EXERCISE INJURIES: PREVENTION AND TREATMENT (3) Provides the student with the knowledge of the general principles of athletic training. The emphasis of the course will be the prevention and management of exercise/sport injuries and conditions. Prerequisite: BI 237

PE 316 CURRICULUM PLANNING & IMPLEMENTATION (2) This course will provide for the development of curricular designs in Physical Education for programs in schools through evaluation of existing programs and the study of current trends and development in relation to their influence on the curriculum. Prerequisites: PE 313 or 314.

PE 317 METHODS AND MATERIALS II: ELEMENTARY (3) Students will be involved in experiences with children from public schools in teaching and learning experiences. Students are required to become actively involved in assuming the roles and responsibilities of a professional educator. Prerequisite: PE 313.

PE 318 METHODS AND MATERIALS II: SECONDARY (3) Students will be involved in experiences with children from public schools in teaching and learning experiences. Students are required to become actively involved in assuming the roles and responsibilities of a professional educator. Prerequisite: PE 314.

PE 321 SUPERVISING SPORTS/FITNESS PROGRAMS (3) An overview of the objectives, strategies and policies the managing sports/fitness programs. Specific learning experience will be designed to enhance the individual's technical, human, and conceptual skills. Prerequisite: PE 105 or PE 106 or HE 100

PE 322 SPORTS AND THE LAW (3) An analysis of the legal considerations in the administration of physical education, health, and sports/athletic programs. Specific law relevant to these programs and how to incorporate consideration of the law into instruction, curriculum development, supervision, staffing, policy formulation, facility design and maintenance, equipment selection and maintenance will be examined.

PE 325 WOMEN AND SPORT (3) Provides an overview of the concerns of women within the social institution of sport. The historical, socio-psychological, and physiological aspects of female sport participation will be examined and discussed. Issues related to the impact of social change within sport upon the female athlete will be addressed. Prerequisite: WS 101, PY 101, or SO 101.

PE 349 PRACTICUM IN PHYSICAL EDUCATION: ELEMENTARY (6) Supervised observation and student teaching in an elementary school, conduct of classes and extra-curricular activities, development and understanding of school and community. Emphasis on continuity of lessons, units, daily evaluation. Supervision by cooperating school practitioner and Physical Education faculty from the college. Individual conferences and group seminars. Prerequisite: Advanced Standing, PE 313 current First Aid certificate.

PE 350 PRACTICUM IN PHYSICAL EDUCATION - SECONDARY (6) Supervised observation and student teaching in a secondary school, conduct of classes and extra-curricular activities, development and understanding of school and community. Emphasis on continuity of lessons, units, daily evaluation. Supervision by cooperating school practitioner and Physical Education faculty from the college. Individual conferences and group seminars. Prerequisite: Advanced Standing, PE 314, current First Aid certificate.

PE 353 CLINICAL EXPERIENCE IN ATHLETIC TRAINING (6-12) Course requires working with a certified athletic trainer in another school for practical experience. Duties to include: administering first aid, administration of therapy treatment, observation of work of the clinical supervisor and duties assigned by the clinical supervisor. Prerequisite: Advanced standing, 2.5 GPA in Athletic Training concentration, current First Aid certificate.

PE 355 PRACTICUM SEMINAR: PHYSICAL EDUCATION (3) The practicum seminar is a series of formal meetings to provide an opportunity for student teachers to perceive relationships among ideas in problem situations, to explore creative situations, to increase familiarity with many resources and materials, and to develop wholesome personal and professional relationships. Special programs are presented with the aid of professional resource persons. Identification of educational innovations, problems and suggestions for the present and future needs of students and school personnel are a pertinent part of the practicum experience.

PE 398 INTERNSHIP WILDERNESS LEADERSHIP (6) Provides the student enrolled in the Wilderness leadership concentration with an opportunity to work with public and/or private agencies/institutions in the community conducting wilderness programs. The student will work under the supervision of the agency/institution director and will be supervised by a member from the MSSLS department. Students will be expected to assist in the development as well as the conduct of the Wilderness Programs offered. Students are expected to fulfill a minimum of 280 clock hours. Prerequisite: Advanced standing and completion of courses in the Wilderness leadership concentration with a minimum QPA of 2.5 and current First Aid certificate.

PE 399 INDEPENDENT STUDY (1-6) Individual research and independent study related to a particular phase of Physical Education with approval from the Physical Education Department. Prerequisite: Physical Education Major with Advanced Standing.

HEALTH

HE 100 HEALTH-RELATED FITNESS FOR ADULTS (3) Designed to assist the individual in making sound choices toward preparing and planning a lifestyle conducive to achieving and maintaining total fitness and wellbeing. Topics include: cardiovascular endurance, muscle strength, muscle endurance, flexibility, diet and weight control, stress management and degenerative disease prevention. Combines the theoretical with the experimental.

HE 101 FIRST AID AND EMERGENCY CARE (1) Provides the fundamental principles, knowledge and skills of first aid and accident prevention. Prepares the individual to care for most injuries and emergencies when medical assistance is delayed. Certification from the National Safety Council will be available upon successful completion of the course.

HE 103 PRINCIPLES OF HEALTH AND WELLBEING (3) Designed to assist the student in developing a lifestyle conducive to good health and wellbeing. Identification of risk factors which affect longevity will be discussed. Included will be substance abuse, emotional and environmental factors, diet and exercise.

HE 201 AMERICAN RED CROSS FIRST AID AND INSTRUCTOR (2) Includes both knowledge and skills needed to administer first aid and adult CPR as well as to teach First Aid using the guidelines and principles of the American Red Cross. Methodology, history and class organization will be included. American Red Cross certification will be available upon successful completion of the course (Fee Requirement)

HE 212 CONCEPTS OF NUTRITION (3) Includes basic principles of nutrition and the body's use of nutrients. Emphasis on the effect of diet on selected health problems as well as the relationship between diet and athletic habits using a variety of established guidelines including the use of a computerized diet analysis. Prerequisite: any lab science course

HE 301 HEALTH EDUCATION IN THE ELEMENTARY SCHOOL (3) Designed to assist administrators and classroom teachers in evaluating needs of the particular school system and to formulate programs in health education. Emphasis will be on correlation and integration of health instruction. Prerequisite: HE 103 or consent of the instructor.

HE 351 INTERNSHIP HEALTH (6) Provides the student enrolled in the Health/Fitness Concentration with an opportunity to do in service work with public and private agencies/institutions in the community. The students will work under the supervision of the agency/institution director and will be supervised by a faculty member from the MSSLS Department. Students will be expected to assist in the development as well as conduct of Health/Fitness programs offered. Students are expected to fulfill a minimum of 280 clock hours. Individual conferences and group seminars are held in addition to the 280 clock hours. Prerequisite: Advanced Standing and completion of courses in the Health/Fitness Concentration with a 2.5 minimum QPA, current First Aid certificate.

HE 399 INDEPENDENT STUDY IN HEALTH (1-6) Individual research and independent study relative to a particular health issue. Prerequisite: Permission of instructor.

RECREATION

RE 101 RECREATIONAL SKILLS (3) A survey of the skills and teaching techniques of a wide variety of sports and games, arts and crafts, drama and literature, music and social activities.

RE 102 INTRODUCTION TO RECREATION AND LEISURE (3) Introduction to the basic concepts, present status of recreation. Overview of the history of the Recreation Movement and its basic philosophy. Field work to be included.

RE 201 TECHNIQUES OF RECREATIONAL LEADERSHIP (2) The theory and practice of leadership techniques specifically applied to the organizing and implementation of recreational activities. Prerequisite: RE 102.

RE 301 OUTDOOR RECREATION (3) An in-depth analysis of outdoor recreational activities. Includes skills of living in nature in respect to wilderness camping and environmental awareness, campcraft skills; planning

and conducting outdoor recreation programs. Prerequisite: RE 102, RE 201.

RE 320 ORGANIZATION AND ADMINISTRATION OF RECREATION (3) The course will cover many aspects of recreation: recreation services, factors supporting recreation today, the philosophy of recreation service, the administrative processes-theory and practice along with administration approaches to structure. Also includes the organization of programs, a study of recent laws, major recreation agencies, parks, municipal programs, functions, and management. Prerequisite: RE 201, RE 301 and 5 activities (lifetime sports).

RE 351 INTERNSHIP RECREATION (6) Provides the student enrolled in the Recreation Concentration with an opportunity to do in service work with public and private agencies/institutions in the community. The students will work under the supervision of the agency/institution director and will be supervised by a faculty member from the MSSLS Department. Students will be expected to assist in the development as well as conduct of recreational programs offered. Students are expected to fulfill a minimum of 280 clock hours. Individual conferences and group seminars are held in addition to the 280 clock hours. Prerequisite: Advanced Standing and completion of courses in the Health/Fitness Concentration with a 2.5 minimum QPA, current First Aid certificate.

RE 399 INDEPENDENT STUDY IN RECREATION (1-6) Individual research and independent study relative to a particular recreation issue. Prerequisite: Permission of instructor.

COACHING COURSES
Prerequisite varsity experience, or skills course in the activity.

PE 209 COACHING VOLLEYBALL (1)
PE 210 COACHING TRACK AND FIELD/CROSS COUNTRY (1)
PE 211 COACHING BASEBALL/SOFTBALL (1)
PE 212 COACHING BASKETBALL (1)

SKILLS

PE 109 AEROBICS (1)
PE 110 ARCHERY (1)
PE 111 BADMINTON (1)
PE 112 BADMINTON II (1)
PE 113 FITNESS FOR ADULTS: WALKING (1)
PE 114 FITNESS FOR ADULTS: JOGGING (1)
PE 115 BOWLING (1)
PE 120 SOCCER (1)
PE 122 SOFTBALL (1)
PE 124 BASKETBALL (1)
PE 127 VOLLEYBALL (1)
PE 128 VOLLEYBALL II (1)
PE 129 FIELD HOCKEY (1)
PE 131 BEGINNERS' SWIMMING (1)
PE 132 INTERMEDIATE SWIMMING (1)
PE 133 SWIMMERS (1)
PE 137 SKIN AND SCUBA DIVING (1)
PE 138 BOATING AND CANOEING (1)
PE 139 KAYAKING (1)
PE 140 SQUARE DANCE (1)
PE 141 FOLK DANCE (1)
PE 142 MODERN DANCE (1)
PE 143 BALLROOM DANCE (1)
PE 144 MODERN JAZZ DANCE (1)
PE 145 BALLET I (1)
PE 146 BALLET II (1)
PE 147 BASIC RHYTHMIC ACTIVITIES (1)
PE 148 TAP DANCE (1)
PE 149 TENNIS (1)
PE 150 TENNIS II (1)
PE 151 TRACK AND FIELD (1)
PE 152 GOLF I (1)
PE 153 GOLF II (1)
PE 154 DOWNHILL SKIING (1)
PE 155 SKI TOURING AND SNOW SHOEING (1)
PE 156 GYMNASTICS I (1)
PE 162 STRENGTH TRAINING & CONDITIONING (1)
PE 163 BALLROOM DANCE II (1)
PE 164 BICYCLING (1)
PE 165 RACQUETBALL AND HANDBALL (1)
PE 167 CAMPING SKILLS (1)
PE 170 TOUCH FOOTBALL (1)
PE 171 DIVING (1)
PE 172 ORIENTEERING (1)
PE 173 INITIATIVE GAMES AND ROPES (1)
PE 180 ROCK CLIMBING (1)
PE 181 AQUA AEROBICS (1)
PE 182 LIFEGUARD TRAINING (2)
PE 183 RELAXATION TECHNIQUES (1)
PE 184 WATER SAFETY INSTRUCTOR (1)
PE 185 SWIMMING FOR FITNESS (1)
PE 188 MODERN JAZZ DANCE II (1)

MUSIC

The Music Department, in alliance with a liberal arts base, provides the highest standard of practical and theoretical training toward the development of potential in the individual student. The department places the student at the center of its focus. Professional training in musicianship, performance, pedagogy, and literature furnishes an environment in which the abilities of the student can be fully developed. After completing music studies at Westfield State College, the student is well equipped to make choices regarding further professional goals and objectives.

Areas of concentration are provided in Performance, Theory and Composition, Music History, Music Education, Jazz Studies, Musical Theatre, Music Merchandising, and Business Management. The successful completion of the Concentration in Music Education leads toward Certification by the State Board of Education.

Any qualified student may participate in the department's Performance Ensembles. Numerous concerts, recitals, and other productions are presented to the entire community each semester.

The Music Department's facilities consist of an electronic piano laboratory, individual practice rooms (equipped with pianos), a music listening room, a recital room, and practice sound modules. Additionally, there is a growing collection of recordings and cassettes available to students. An impressive collection of texts on music and an expanding collection of music scores are housed in the College Library.

Graduates majoring in music have found careers in church music, in music education, recording engineering, music retailing, profession performance careers outside of the field of Music.

REQUIREMENTS FOR MUSIC MAJORS

MUSIC MAJOR CORE (Total Credits 35)

MU 112 MUSIC THEORY I (3)
MU 211 MUSIC THEORY II (3)
MU 113 BASIC MUSICIANSHIP I (1)
MU 114 BASIC MUSICIANSHIP II (1)
MU 200 MUSIC HISTORY I (3)
MU 201 MUSIC HISTORY II(3)

MUSIC INSTRUMENT/VOICE (Levels 1-7) (14)

All Music Majors are required to take one lesson per week on their major instrument, or voice, throughout seven semesters of study. All students enrolled in Major instrument or Voice study must also participate, as available, in a Repertoire Class. There is no additional fee for lessons that are required for graduation, within the Music Major Core, or the student's selected Area of Concentration.

PIANO PROFICIENCY 0-3

ENSEMBLE (6)

All students must participate in a performing ensemble during each semester enrolled as a Music Major or Music Minor as assigned by the department. To receive credit for any Major instrument or Voice level for the study of Applied Music, all students must pass a jury examination at the end of each semester. Any grade of "Incomplete" received in Applied Music must be made up by the end of the fourth week of the following semester.

RECITAL CLASS (1)

All Music Majors must participate in a musical organization each semester. Details available from Department.

AREAS OF CONCENTRATION

CONCENTRATION IN MUSIC EDUCATION

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

The student will select the appropriate group of listed courses for the certification sought: Teacher of Music: Elementary (N-9), or Teacher of Music: Secondary (5-12).

Admission to the music education concentration during the fourth semester is dependent on: completion of the piano proficiency requirement, and completion of an entrance examination to include music education philosophy, major applied area, basic musicianship, and piano.

All music education concentration students must pass a pre-practicum jury examination in the semester preceding the practicum. The examination will demonstrate proficiency in conducting, score reading, piano, sight singing, and the major applied area.

Music education concentration students preparing for a practicum experience in instrumental music normally take a traditional concert band or orchestral instrument for the applied major. Students preparing for a practicum experience in vocal music normally take voice for the applied major. Students planning a practicum experience outside their usual performing area must demonstrate performance experience and proficiency equivalent to MU 172 or complete three semesters of minor applied study and ensemble experience in voice or percussion or winds or orchestral strings, as appropriate.

Major Coursework (Total Credits 41)
- MU 112 Music Theory I (3)
- MU 211 Music Theory II (3)
- MU 212 Music Theory* III (3)
- MU 312 Form and Analysis (3)
- MU 200 Music History I (3)
- MU 201 Music History II (3)
- MU 230 Basic Conducting (3)
- Applied Music (Instrument/Voice 7 Levels) (14)
- Ensemble (6)

Pedagogical Coursework
- Vocal and Instrumental Techniques (3)
- MU 221 Music Curriculum and Instruction (3)
- MU 323 Behavioral Techniques in Music (3)
- ED 221 Equity in Education (3)

One of the following:
- MU 322 Elementary Music Methods (3)
- MU 321 Vocal Music in the Secondary Schools (3)
- MU 327 Instrumental Music in the Elementary Schools (3)
- MU 326 Instrumental Music in the Secondary Schools (3)

One of the following:
- PY 202 Child Psychology (3)
- PY 203 Adolescent Psychology (3)

One of the following:
- MU 324 Practicum: Music, Elementary (6)
- MU 325 Practicum: Music, Secondary (6)

* Students who also concentrate in Jazz Studies may substitute CONTEMPORARY HARMONIC TECHNIQUES for MUSIC THEORY III

CONCENTRATION IN PERFORMANCE (Total Credits 30)

Students will Audition for admission into this Concentration; pass a Qualifying Examination before entering the fifth level of Applied Studies; and present a Satisfactory Junior Performance.

Major Instrument or Voice (10)
- MU 200/201 Music History I or II (3)
- Music History Elective (3)
- MU 212 Music Theory III (3)
- Music Theory or Composition Elective (3)

MU 213 Basic Musicianship III (2)
MU 330/331 Choral or Instrumental Conducting (3)
MU 312 Form and Analysis (3)
Senior Recital (0)

CONCENTRATION IN MUSIC HISTORY (Total Credits 21)

MU 300 Music in the Middle Ages and Renaissance (3)
MU 301 Music in the Baroque Period (3)
MU 302 Music in the Classical and Romantic Periods (3)
MU 303 Music in the Twentieth Century (3)
MU 212 Music Theory III (3)
MU 312 Form and Analysis (3)
MU 330/331 Instrumental or Choral Conducting (3)

CONCENTRATION IN THEORY AND COMPOSITION (Total Credits 33)

The last three listed courses in the Concentration in Theory and Composition are not required of those students who have a double concentration in music.

For the student in the Theory and Composition Concentration, the fourteen hours required in the Music Major Core in MAJOR INSTRUMENT OR VOICE, will be distributed as follows: MAJOR INSTRUMENT or VOICE (8), MINOR INSTRUMENT/PIANO (4), and ADVANCED COMPOSITION I (2).

MU 212 Music Theory III (3)
MU 217 Orchestration (3)
MU 312 Form and Analysis (3)
MU 310 Counterpoint (3)
MU 214 Composition I (2)
MU 215 Composition II (2)
MU 216 Composition III (2)
Instrumental Classes (from two of the following:
(Strings, Woodwinds, Brass, and Percussion) (2)
Choral or Instrumental Conducting (3)
MU 311 Advanced Music Theory (3)
MU 315 Advanced Composition II (2)
MU 316 Advanced Composition III (2)
Music History Elective (3)

CONCENTRATION IN MUSICAL THEATRE (Total Credits 27)

Voice Class (1)
MU 330/331 Choral or Instrumental Conducting (3)
Musical Theatre Practicum (1-1-1-1) (4)
MU 200/201 Music History I or II (3)
EN 352 Acting I and II (6)
Theatre Workshop (6), or Vocal Techniques (3)
and Theatre Arts (3) (6)
Ballet I and II (2)
Dance: Folk, Modern, Tap, or Jazz (2)

CONCENTRATION IN INSTRUMENTAL JAZZ STUDIES (Total Credits 26)

MU 160 Jazz/Rock History (3)
MU 264 Jazz Theory and Analysis (3)
MU 362 Jazz Improvisation I (2)
MU 364 Contemporary Harmonic Techniques (3)
MU 360 Stage Band Arranging I (3)
MU 361 Stage Band Arranging II (3)
MU 145 Jazz Ensemble (2)
MU 267/268 Jazz Keyboard Harmony I, II, III (3)
MU 363 Jazz Improvisation II (2)
Jazz Instrument (2)

CONCENTRATION IN VOCAL JAZZ STUDIES (Total Credits 24)

MU 160 Jazz/Rock History (3)
MU 264 Jazz Theory and Analysis (3)
MU 362 Jazz Improvisation I (2)

MU 364 Contemporary Harmonic Techniques (3)
MU 365 Vocal Jazz Techniques (3)
MU 366 Vocal Jazz Arranging (3)
MU 267/268 Jazz Keyboard Harmony I, II, III (3)
MU 146 Vocal Jazz Ensemble (2)
Jazz Voice (2)

CONCENTRATION IN MUSIC MERCHANDISING AND BUSINESS MANAGEMENT (Total Credits 31)

Music Theory or Contemporary Harmonic Techniques (3)
MU 264 Jazz Theory and Analysis (3)
MU 200/201 Music History I or II (3)

Instrumental Classes
From: Violin, Trumpet, Clarinet, Piccolo, Guitar (4)
From: Oboe, Flute, Saxophone, Horn, Trombone (3)
Instrumental or Choral Conducting (3)
MG 221 Business Management (3)
MG 231 Marketing Management (3)
MG 104 Accounting I (3)
MG 302 Small Business Management (3)

MUSIC MAJOR - NO SPECIFIC CONCENTRATION

Music Theory and Music History Electives (9)
Ensembles (2)

MUSIC MINOR (TOTAL CREDITS 18)

MU 112/211 Music Theory I and II (6)
Major Instrument of Voice (6)
MU 330/331 Instrumental or Choral Conducting (3)
MU 200/201 Music History I or II (3)

COURSES

THEORY AND COMPOSITION

MU 110 BASIC MUSIC THEORY (3) (non majors) The study of notation, scale construction, intervals, chords, rhythm, and elements of form and counterpoint.

MU 111 BASIC MUSIC THEORY (Majors and Minors) (3) The study of notation, scale, interval and chord construction, rhythm, and elements of melody, form and counterpoint.

MU 112 MUSIC THEORY I (3) A continuation of Basic Music Theory (MU 111) with study of Inversions, Nonharmonic Tones, Harmonic Rhythm, Modulations, Dominant Seventh Chords, the Principles of Secondary Dominants, and simple descriptive analysis. Continued exploration of melodic structure, and musical texture.

MU 113 BASIC MUSICIANSHIP I (1) Elementary solfege, rhythm exercises, musical dictation, and musical terms in Italian and German.

MU 114 BASIC MUSICIANSHIP II (1) Intermediate solfege, rhythm exercises, musical dictation, and musical terms in the French language. Prerequisite: MU 113.

MU 211 MUSIC THEORY II (3) Emphasis is upon the study of extended chords, sequence, and chromatic harmonies. Continued development of analytical techniques. Prerequisite: MU 112.

MU 212 MUSIC THEORY III (3) Emphasis is upon late Romantic and Twentieth-Century Harmonic Techniques. Also, an introduction to the experimental techniques of Contemporary Music, and continued concern for the development of analytical techniques. Prerequisite: MU 211.

MU 213 BASIC MUSICIANSHIP III (2) Advanced solfege, rhythm exercises. Interpretation of scores through formal analysis. Prerequisite: MU 114.

MU 214 COMPOSITION I (2) An introduction to basic compositional techniques in music. Creative work in smaller forms. Prerequisite: MU 112.

MU 215 COMPOSITION II (2) Emphasis is upon varied instrumental and vocal media. Includes an introduction to Twentieth-Century Compositional Techniques. Prerequisites: MU 211 and MU 214.

MU 216 COMPOSITION III (2) Emphasis is upon individual projects. Performance of original works will be encouraged. Prerequisites: MU 212, and MU 215.

MU 217 ORCHESTRATION (3) A study of the technical aspects of each instrument to include ranges, and transposition. Score analysis and arranging for various combinations of instruments. Prerequisites: MU 112, and Instrument Classes.

MU 310 COUNTERPOINT (3) A review of species counterpoint will lead to a study of tonal counterpoint in the style of the 18th Century. Analysis of representative works will complement the written work in from two to four voices, culminating in efforts in such forms and techniques as the invention, canon, invertible counterpoint, and fugue. Prerequisite: MU 112.

MU 311 ADVANCED MUSIC THEORY (3) Continuation of Music Theory III with special focus upon the works of contemporary theorists, and the application of their concepts and principles to music of all periods and styles. May be repeated for credit. Prerequisites: MU 212 and MU 312.

MU 312 FORM AND ANALYSIS (3) An introduction to the analysis of musical forms. Works analyzed: 17th century to late 19th century compositions. Prerequisite: MU 212.

MU 314 ADVANCED COMPOSITION I (2) Continuation of Composition III. Performances of original works will be required. Prerequisite: MU 312.

MU 315 ADVANCED COMPOSITION II (2) Continued study in Music Composition, with emphasis upon extended works for larger ensembles. Prerequisite: MU 314.

MU 316 ADVANCED COMPOSITION III (2) The final semester in Composition. Concern for the presentation of a public recital and/or the development of a portfolio of compositions. Prerequisite: MU 315.

MU 317 CHORAL ARRANGING (3) The development of arranging techniques for the choral ensemble. Attention is devoted to harmonic arranging for both accompanied and unaccompanied female, male, and mixed ensembles. Attention to contrapuntal aspects of the choral arranging process. Prerequisites: MU 212 and MU 310.

MU 399 INDEPENDENT STUDY (Theory and Composition) (3-6)

MUSIC HISTORY, LITERATURE, AND APPRECIATION

MU 101 MUSIC APPRECIATION (3) The study of masterpieces of music from each era, from the Middle Ages through contemporary times. Emphasis is on directed listening and music is analyzed with reference to style characteristics.

MU 102 MUSIC IN AMERICA (3) A survey of music in America from the landing of Columbus through the Twentieth Century.

MU 103 MUSIC APPRECIATION (Music majors) (3) The study of music of each era, from the Middle Ages through contemporary times. Music is analyzed through directed listening, through the use of musical scores, and with reference to style characteristics.

MU 104 WORLD MUSIC (3) A survey of world music literature including the music of non-Western cultures: China, India, and the Near East; the tribal music of Africa and its influence on the music of South America and the Caribbean area; the lesser known music of the Western world including Iceland, Ireland, and the Indians of America. Designed for Honors students of the college. Prerequisite: MU 101 or permission of instructor.

MU 106 WOMEN'S ROLE IN MUSIC: A HISTORY (3) The course will trace women's involvement in the field of music and include the study of women composers, performers, musicologists, educators, and women as patrons of the arts.

MU 160 HISTORY OF JAZZ (3) The study of jazz music from the early 1900's to the present. Emphasis on styles and trends of major jazz performers and ensembles within each period.

MU 200 MUSIC HISTORY I (3) A chronological study of the history of musical styles showing the development of musical forms from the Middle Ages through the Baroque Era.

MU 201 MUSIC HISTORY II (3) A continuation of Music History I. The study of musical forms as developed from the Classical Era through the Twentieth Century.

MU 300 MUSIC IN THE MIDDLE AGES AND RENAISSANCE (3) A chronological study of forms and styles of Western Music from Antiquity through the Sixteenth Century. Prerequisite: MU 103, 200, & 201 or permission of the Instructor.

MU 301 MUSIC IN THE BAROQUE ERA (3) The history of music from 1600 to 1750 with emphasis on the musical styles of Monteverdi, Bach, and Handel. Prerequisite: MU 103, 200, 201 or permission of instructor.

MU 302 MUSIC IN THE CLASSIC AND ROMANTIC ERAS (3) A study of the forms and styles of music from 1740 to 1900. Prerequisite: MU 103, 200, 201 or permission of instructor.

MU 303 MUSIC IN THE TWENTIETH CENTURY (3) A study of changing styles of music from the late German Romanticists through the experimental music of contemporary times. Prerequisites: MU 103, 200 and 201 or permission of the Instructor.

MU 304 AFRO-CARIBBEAN MUSIC (3) Music of Puerto Rico and the Caribbean Islands. A study of the influences of Spanish, African and Indian music on the music of Puerto Rico, and its influence on the music of America. Course is especially designed for the classroom teacher. Prerequisite: MU 101 or 103.

MU 399 INDEPENDENT STUDY (Music History) (3-6)

MUSIC EDUCATION

MU 220 MUSIC IN THE ELEMENTARY SCHOOL (3) A course designed for the non-music major. Introduces the materials and techniques with which the elementary education major may guide young children in musical experiences. Emphasis is on the development of musical knowledge and teaching skills.

MU 221 MUSIC CURRICULUM AND INSTRUCTION (3) A field-based methods course including an overview of curriculum and principles of music education grades N-12. Administration of ensembles and classroom music courses. Twenty-five (25) hours of field experience in selected public schools are required with documentation.

MU 230 BASIC CONDUCTING (3) Basic techniques of conducting including baton techniques; simple, compound, and asymetrical meters; expression and interpretation through laboratory experiences. Prerequisites: MU 112, MU 201.

MU 321 VOCAL MUSIC IN THE SECONDARY SCHOOLS (3) A study of vocal music activities in the public schools, from the middle-school level through the senior high school. The course field experience prepares students to organize and develop a choral program, analyze and evaluate choral literature, and prepare for rehearsals and performances. Prerequisites: MU 120, 156, 274 Major Instrument V, Voice and Piano Proficiency.

MU 322 ELEMENTARY MUSIC METHODS (3) A survey of music literature, materials and current teaching techniques appropriate for the elementary school vocal music program. Consideration is given to identifying goals and developing sequential musical experiences. Assignments in area public/private schools will be required throughout the semester. Prerequisites: PY 301, MU 156, Piano Proficiency, and MU 120.

MU 323 BEHAVIORAL TECHNIQUES IN MUSIC (3) A field-based methods course emphasizing the application of behavioral principles in music rehearsals and classes. Twenty-five (25) hours of field experience in selected public schools are required, with documentation. Prerequisites: PY 101, MU 221.

MU 324 PRACTICUM: MUSIC, ELEMENTARY (6-12) A full-time unpaid apprenticeship with a cooperating practitioner at the elementary level, supervised by college music faculty. Scheduled to include a minimum of 135 hours of direct instructional responsibility. Periodic on campus seminars are required. Prerequisite: Completion of all required courses for elementary certification.

MU 325 PRACTICUM: MUSIC, SECONDARY (6-12) A full-time unpaid apprenticeship with a cooperating practitioner at the secondary level, supervised by college music faculty. Scheduled to include a minimum of 135 hours of direct instructional responsibility. Periodic on campus seminars are required. Prerequisite: Completion of all required courses for secondary certification.

MU 326 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOLS (3) A field-based methods course emphasizing teaching materials and techniques for secondary school bands and orchestras. Twenty-five (25) hours of field experience in selected public schools are required, with documentation. Prerequisite: MU 221.

MU 327 INSTRUMENTAL MUSIC IN THE ELEMENTARY SCHOOLS (3) A field-based methods course emphasizing teaching materials and techniques for beginning and intermediate instrumental classes, including strings, woodwinds, brass, and percussion. Twenty-five (25) hours of field experience in selected public schools are required, with documentation. Prerequisite: MU 221.

MU 399 INDEPENDENT STUDY (Music Education) (3-6).

CONDUCTING

MU 330 CHORAL CONDUCTING (3) The development of conducting techniques in relation to rhythmic/melodic exercises. Basic techniques of choral conducting, voice production, choral literature and performance practices. Prerequisites: MU 201 and 211.

MU 331 INSTRUMENTAL CONDUCTING (3) Conducting and score reading of standard orchestral repertoire. Attention is given to the broader aspects of style, interpretation, terminology, transposition and the detailed aspects of baton technique. Prerequisites: MU 201, 211, and Instrument Classes.

MU 399 INDEPENDENT STUDY (Conducting) (3-6).

PERFORMING ENSEMBLES

MU 140 CHORALE (1) Membership by audition. Mixed voices emphasizing the acappella tradition, the Chorale also performs with orchestra. Extensive performance schedule on

and off campus. Literature spans all periods of music history. The Chorale tours every spring. May be repeated for credit.

MU 141 COLLEGE CHORUS (1) Mixed voices, no audition required. Performs on and off campus at least twice each semester. Literature covers all periods of music history with emphasis on major works. May be repeated for credit.

MU 142 MADRIGAL SINGERS (1) Mixed voices, by audition. Music for small ensemble from all periods of music history. Emphasis on the Renaissance Period and acappella singing. May be repeated for credit.

MU 143 THE WIND SYMPHONY (1) Open to all qualified students through the successful completion of an audition. Dedicated to the finest in wind-instrument repertory. Several concerts, both on and off campus each year. May be repeated for credit.

MU 144 ORCHESTRA (1) A College-Community Ensemble which is open to all students and interested musicians from the Greater Westfield Area. Performance of standard orchestral literature. A performance each semester. May be repeated for credit.

MU 145 JAZZ ENSEMBLE (1) A group of instrumentalists who perform arrangements in the Jazz and other popular idioms. By audition only. May be repeated for credit.

MU 146 JAZZ VOCAL ENSEMBLE (1) A group of sixteen singers and instrumentalists who perform arrangements in the Jazz and contemporary idioms. Semi-choreographed. By audition only. May be repeated for credit.

MU 240 CHAMBER ENSEMBLES (1) By special arrangement. Small ensembles structured according to student interest and available faculty expertise. Recently offered: Brass Quintet, Woodwind Quartet, Accordion Ensemble, Percussion Ensemble, Trombone Choir, Horn Ensemble, Opera Workshop and others. May be repeated for credit.

INSTRUMENTAL CLASSES

MU 150-151, 250 PIANO CLASS (non-majors) (1-1-1) (Beginner, Intermediate, Advanced) Class instruction for students with little or no keyboard experience. Emphasis is on developing functional skills at the keyboard and ability to interpret musical notation.

MU 152-153, 252 PIANO CLASS I-III (for Music Majors) (1-1-1) A keyboard class designed to develop practical playing skills. Begins with emphasis on fundamental piano techniques, moves through emphasis on chording, accompanying, and improvising and sight reading, and concludes with the learning of assigned compositions and the development of transpositional skills.

MU 154 WOODWIND CLASS (1) The focus will be on either Flute, Oboe/Bassoon, Clarinet, or Saxophone. Involves classroom study of the particular instrument through practical experience in performance to the extent that the student can demonstrate a knowledge of the basic fundamentals of embouchure, fingerings, breathing and tone production, as they apply to the particular instrument being studied.

MU 155 BRASS CLASS (1) (Trumpet, Horn, Trombone, or Tuba) Classroom study of the particular instrument through practical experience in performance to the extent that the student can demonstrate a knowledge of the basic fundamentals of embouchure, fingerings, breathing and tone production as they apply to the particular instrument being studied.

MU 156 VOICE CLASS (1) A course designed to meet the needs of the non-voice major in the music major program. The class is conducted in the form of a vocal laboratory, in which the students work on the development of skills necessary for good singing.

MU 157 PERCUSSION CLASS (1) The study and acquisition of skills applicable to the various instruments of the percussion section.

MU 158 STRING CLASS (1) (Violin, Viola, Violoncello, or String Bass) Classroom study on a particular instrument. Practical experience in performance to the extent that the student can demonstrate a knowledge of the basic fundamentals of bowing, fingerings, and tone production as they apply to the particular instrument.

JAZZ STUDIES

MU 260-263 JAZZ INSTRUMENT OR VOICE I-IV (2-2-2-2) Study on the student's principal instrument of the techniques and stylistic considerations in the performance of Jazz. Prerequisite: MU 174-177.

MU 264 JAZZ THEORY AND ANALYSIS (3) The study of jazz techniques and fundamentals including: improvisation, scales, chords, and rhythmic interpretation of jazz phrases. Prerequisite: MU 111.

MU 266 SMALL GROUP JAZZ WORKSHOP (1) The study of Jazz literature, current improvisational techniques and the performance practice made popular by the so-called "jam session."

MU 267-268 JAZZ KEYBOARD HARMONY I-II (1-1) Classroom piano instruction for students interested in jazz. Emphasis on II-V-I progressions, Blues forms, and other chord functions. Prerequisite: MU 264.

MU 360-361 STAGE BAND ARRANGING I-II (3-3) A study of writing techniques for jazz ensembles, rock groups, and other ensembles. Prerequisites: MU 264 and MU 364.

MU 362-363 JAZZ IMPROVISATION I-II (2-2) Classes for developing skills in harmonic, melodic, and rhythmic improvisation through performance. Prerequisite: MU 264.

MU 364 CONTEMPORARY HARMONIC TECHNIQUES (3) Twentieth century chordal structures including extended chords, chromatic harmony, and harmonic substitutions. The keyboard will be used and all scoring will be for piano. Prerequisites: MU 211 and MU 264.

MU 365 JAZZ VOCAL TECHNIQUES (3) A class for developing Jazz vocal phrasing, interpretations, and style. Scat singing is emphasized.

MU 366 JAZZ VOCAL ARRANGING (3) A class for developing writing skills for Jazz vocal solos, duets, small and large ensembles. Notation is emphasized.

MU 367 CHORD SCALES (2) The advance study of chord extensions, substitutions and alterations relating to scales and melody for use in instrumental solo playing and arranging. Prerequisites: MU 110, 111, 262, and 362.

MU 399 INDEPENDENT STUDY (Jazz Studies) (3-6)

APPLIED MUSIC STUDIES

Private music lessons, required of all music majors and music minors, are provided by the Applied Music Studies Faculty. Music Majors are exempt from applied music instruction fees for those hours specifically required for graduation, within their individual programs.

A PREREQUISITE to all first-year MAJOR INSTRUMENT OR VOICE study is a satisfactory entrance audition. MAJOR INSTRUMENT OR VOICE study is undertaken by each student in relation to one instrument from the following list:

Flute	Horn
Piano	Trumpet
Oboe	Trombone
Organ	Euphonium
Clarinet	Tuba
Percussion	Accordion
Violin	Bassoon
Viola	Harpsichord
Violoncello	Saxophone
String Bass	Classical Guitar
Voice	

MINOR INSTRUMENT OR VOICE levels listed below are generally taken only for elective credit. Any of the above instruments may be elected for Minor study. Syllabi which detail the requirements for each level are available through a separate departmental publication. MINOR INSTRUMENT OR VOICE study does not require a Jury Examination at the end of each semester.

MU 170-173 MINOR INSTRUMENT OR VOICE I-IV 1-1-1-1

MU 270-273 MINOR INSTRUMENT OR VOICE V-VIII 1-1-1-1

Syllabi which detail the requirements for each level of MAJOR INSTRUMENT OR VOICE are available through a separate departmental publication. A Juried Examination is required for the completion of each level.

MU 174-177 MAJOR INSTRUMENT OR VOICE I-IV 2-2-2-2

MU 274-277 MAJOR INSTRUMENT OR VOICE V-VIII 2-2-2-2

MU 374-377 MAJOR INSTRUMENT OR VOICE IX-XII 2-2-2-2

MU 278 RECITAL CLASS (1) Application of platform deportment, and performance experience. Attention is given to aspects of programming works for recitals and concerts.

MU 378 SENIOR RECITAL (0) Complete public recital of solo and ensemble (optional) literature from the standard repertoire (sixty minutes minimum playing duration). Prerequisite: A satisfactory Junior Performance; prerequisite to the Junior Performance is a Satisfactory Qualifying Examination.

MUSICAL THEATRE

MU 180 MUSICAL THEATRE PRACTICA (1) Participation for a semester in the Musical Theatre Guild production, in one of the following capacities: (a) Director, Musical Director, Choreographer, or Conductor, (b) Major or minor lead part, (c) Chorus plus serving on one crew. May be repeated for credit. Prerequisite: Enrollment in the Musical Theatre Concentration.

MU 399 INDEPENDENT STUDY (Musical Theatre) (3-6).

PHILOSOPHY

PHILOSOPHY MINOR

Students who wish to add significant philosophic depth to their undergraduate program may take a minor in Philosophy.

The philosophy faculty intends to provide courses to achieve the following:

* opportunities in all offerings for insight into and the methods for rigorous, carefully articulated, dynamic criticism of ideas and theories in general
* detailed, multi-level treatments of certain well-defined and traditionally important areas of thought such as political and social philosophy, ethics, logic, religion, philosophy of science, and philosophies of the human sciences
* a comprehensive range of courses outlining the development of Western philosophies and identifying significant thinkers, with a particular emphasis on modern and contemporary implications
* frequent and thorough analyses of issues which can utilize fruitfully and provocatively interdisciplinary perspectives and the application of antithetical as well as complementary theories of knowledge
* study of issues in ways which heighten and promote the continued vitality of a liberal arts education, especially the analytical and critical breadth which the humanities provide.

The Department expects to advance these goals in part by often scheduling courses on topical and timely subjects.

The courses which follow are divided into three levels, varying by degree of difficulty and requirements for entrance. Level One courses have no prerequisites and are open to all students in the College. Level Two courses generally have some form of prerequisite, though under special circumstances these may be waived. Level Three courses usually contain more difficult material; prerequisites should be expected, though not necessarily only in philosophy. In all cases, however, the instructor may waive prerequisites so as to give students opportunities to undertake a serious intellectual challenge.

COURSES

PH 101 INTRODUCTION TO SOCIAL AND POLITICAL PHILOSOPHY (3) Introduction to philosophy through consideration of topics such as individualism, order vs. freedom, values within contemporary social movements, foundations of social and political life, and analyses of modern culture as expressive of social and political ideas. Special attention given to the fundamentals of critical analysis.

PH 102 INTRODUCTION TO ETHICS (3) Introduction to philosophy through consideration of classic and contemporary moral issues. Topics such as moral relativism, responsibility, the bases of systems of justice, moral consistency, and the structure and applications of ethical systems. Special attention given to fundamentals of critical analysis.

PH 103 SYMBOLIC LOGIC I (3) Introduction to the principles and techniques of standard deductive logic: the nature of reasoning, argument, and inference; truth and validity; the application of logical rules to alternative types of deductive proof; the limits of sentence logic and an introduction to predicate logic. Attention given to the application of logic to other disciplines.

PH 104 GREAT PHILOSOPHICAL ISSUES (3) Introduction to philosophy through consideration of historically recurrent themes such as materialism, mysticism, idealism, rationalism, and empiricism. Special attention given to the fundamentals of critical analysis and the interpretation of original sources.

PH 107 MAJOR RELIGIONS OF THE WEST (3) Introduction to the history and the major doctrines of Christianity, Islam, Judaism, and Zoroastrianism. Special attention given to fundamentals of philosophical analysis of religious beliefs.

PH 108 MAJOR RELIGIONS OF THE EAST (3) Introduction to the history and major doctrines of Buddhism, Confucianism, Hinduism, Jainism, Shinto, Sikhism, and Taoism. Special attention to the fundamentals of philosophical analysis of religious beliefs.

PH 110 INTRODUCTION TO PHILOSOPHY OF SCIENCE (3) Introduction to classical and contemporary scientific world views and their respective philosophies of nature. Topics such as comparative studies of major scientific revolutions. Special attention given to the fundamentals of philosophical analysis of scientific theories.

PH 200 SPECIAL TOPICS IN PHILOSOPHY: (3) Careful analytical treatment of selected philosophical issues, perspectives, or themes chosen for their timely interest. Significant topics such as Marxism, Eastern philosophies, myth and reality, minds and machines, and philosophy and the arts

(music, film, drama, literature, painting, design, or sculpture; aesthetics). Prerequisite: 100-level philosophy course or equivalent.

PH 201 ANCIENT PHILOSOPHY (3) Reading and discussions of such ancient thinkers as the pre-Socratics, Socrates, Democritus, Plato, and Aristotle. Special attention to organizing ancient philosophical thought by examining historically recurrent themes; considering dominant perspectives such as Ionian nature-philosophy, atomism, skepticism, and Pythagoreanism. Prerequisite: 100-level philosophy course or equivalent.

PH 202 MODERN PHILOSOPHY: 15TH TO 18TH CENTURIES (3) Reading and discussion of selected major Continental and British thinkers of the period such as Cusanus, Bacon, Descartes, Pascal, Locke, and Kant. Special attention given to organizing early modern philosophical thought by examining historically recurrent themes; considering crucial developments such as the New Physics, the tensions of form and experiment, and the conflict between reason, doubt, and revelation. Prerequisite: 100-level philosophy course or equivalent.

PH 203 MODERN PHILOSOPHY: THE 19TH CENTURY (3) Reading and discussion of selected major Continental and British thinkers of the century such as Hegel, Marx, Kierkegaard, Nietzsche, Darwin, and Mach. Special attention to organizing 19th century philosophical thought by examining historically recurrent themes; considering trends such as Romanticism, Marxism, subjectivism, naturalism, and mechanism. Prerequisite: 100-level philosophy course or equivalent.

PH 206 SYMBOLIC LOGIC II (3) Careful treatment of predicate logic through the theory of relations. Introduction to philosophical logic by consideration of alternative theories of consistency and proof. Some recent investigations of the nature and varieties of paradox and their impact on reasoning and inference. Special attention given to the applications of such logics to artificial, natural, and expressive languages. Prerequisite: PH 103 or its equivalent.

PH 209 PHILOSOPHY OF RELIGION (3) Careful analytical treatment of the various problems of religious discourse. Significant topics such as the problem of the existence of a god (or gods), the nature of religious experience, and the question of revelation. Prerequisite: PH 107, PH 108, or equivalent.

PH 212 PHILOSOPHY OF SCIENCE (3) Careful analytical treatment of the conceptual foundations of scientific thought. Topics such as space, time, and relativity; determinism and indeterminism; causality and chance; alternative views of explanation, theory construction, truth. Special attention given to examples selected from mathematics and/or physical sciences. Prerequisite: PH 110 or its equivalent.

PH 213 PHILOSOPHY AND MODERN ORGANIZATIONS: (3) Careful analytical treatment of selected modern institutions so as to understand their philosophical presuppositions, ethics, languages, orders, and impact on and view of the person. Topical consideration of agencies, professions, and social groups such as those involved with medicine, the law, business, psychiatry and psychology, education, and government. Under this course number might appear biomedical, media, scientific, or legal ethics; philosophies of law or of jurisprudence, etc. Prerequisite: 100-level philosophy course or equivalent.

PH 214 PHILOSOPHY OF THE SOCIAL SCIENCES (3) Careful analytical treatment of knowledge in the social sciences. Comparisons with scientific criteria emphasized. Special attention given to relations between philosophical and social commitments and social-scientific methodologies. Prerequisite: 100-level philosophy course or equivalent.

PH 215 AMERICAN PHILOSOPHY (3) Reading and discussion of selected major American thinkers such as Cotton Mather, Edwards, Royce, Peirce, William James, Dewey, and Santayana. Special attention given to organizing American philosophical thought by examining historically recurrent themes (including the various religious, sociocultural, and metaphysical views of the person, the group, knowledge itself, and ultimate-value systems advanced by such philosophers); considering perspectives such as idealism, utilitarianism, pragmatism, individualism, naturalism, and positivism. Prerequisite: 100-level philosophy course or equivalent.

PH 216 CONTEMPORARY PHILOSOPHY (3) Reading and discussion of selected thinkers of the 20th Century such as Sartre, de Beauvoir, Heidegger, Wittgenstein, Russell, Whitehead, and the "Vienna Circle." Special attention given to organizing contemporary philosophical thought by examining historically recurrent themes; considering perspectives such as existentialism, phenomenology, analytic philosophy, philosophies of language, and philosophies of liberation. Prerequisite: 100-level philosophy course or equivalent.

PH 217 PHILOSOPHY AND FILM: Study of film esthetics and concepts in selected movies and related intellectual movements, thinkers, or film-makers. Special emphasis on those informed by philosophical movements such as existentialism, Marxism, modernism, or postmodernism. Topics drawn from cinema dealing with ethics, social and political philosophies, religious themes, or modern

metaphysics, with attention to film criticism written by 20th century thinkers with philosophical training and interests. Prerequisites: 100-level philosophy course or equivalent.

PH 300 SEMINAR IN PHILOSOPHY: (3) Intensive analysis of selected issues, problems, figures, or areas in philosophy. Prerequisite: 200-level philosophy course or consent of instructor.

PH 304 SEMINAR IN INFERENCE AND INQUIRY: (3) Intensive analysis of the structures of inference and modes of inquiry in the formal, empirical, or human sciences. Topics selected from the mathematical, physical, biological, and social sciences. Special attention given to the logical, methodological, and epistemological status of models, laws, paradigms, and theories. Prerequisite: 200-level philosophy course or consent of instructor.

PH 305 SEMINAR IN VALUE THEORY: (3) Intensive analysis of selected issues, problems, figures, or areas concerned with topics such as free choice, "right action," personal commitment, systems of values, and sociocultural norms. Prerequisite: 200-level philosophy course or consent of instructor.

PH 306 SEMINAR IN RELIGIOUS STUDIES: (3) Intensive analysis of selected issues, problems, figures and areas within the history and in the philosophical consideration of religious belief. Prerequisite: 200-level philosophy course or consent of instructor.

PH 333 SEMINAR IN INTERDISCIPLINARY STUDIES: (3) A seminar with intensive analysis of selected issues, problems, thinkers, or areas which can involve interdisciplinary perspectives or which raise traditionally interdisciplinary questions. Consideration of the forms, fundamental ideas, and structures of intellectual and academic disciplines. May be offered in conjunction with other departments. Prerequisite: 200- or 300-level course work or consent of instructor.

PH 399 INDEPENDENT STUDY: (1 to 6 credits) Directed written or reading projects to be arranged by the student and instructor. Intensive analysis of student work. Prerequisite: advanced work in philosophy or other disciplines.

PHYSICAL SCIENCE

The Physical Science Department is a multidisciplinary department which includes physics, chemistry, electronics, geology, and astronomy. The Department offers a Bachelor of Science degree in General Science with concentrations in general science education or chemistry. The general science education concentration is designed for students who plan to teach general science at the middle school, junior high school, or high school level. The chemistry concentration prepares students for graduate school or employment. Graduates have obtained positions as laboratory technicians, medical technologists, and teachers. Students who choose to teach General Science or Chemistry must also elect professional secondary education courses.

The Department also offers a Bachelor of Science degree in Applied Chemistry. The primary emphasis of the major is the application of the principles of chemistry, physics, computer science, and electronics to chemical instrumentation. The curriculum includes a basic study of chemistry and physics along with the various aspects of electronics and computer technology required to produce hardware and software interfaces between instruments and computers.

The Department offers minor programs in General Science and Chemistry.

Housed on the third floor of Wilson Hall, the department uses ten laboratories with the latest safety features. The chemistry labs are equipped with compressed air, vacuum, gas, steam, A.C. and controlled D.C. power, and fume hoods. Several labs are equipped with modern chemical instruments and microcomputers. The department possesses infrared, ultraviolet, flame and atomic absorption spectrophotometers, gas and liquid chromatographs, and a chemical laboratory robotics system among other instruments.

REQUIREMENTS FOR APPLIED CHEMISTRY MAJOR: 58 CREDITS

Students will be asked to take Calculus I and II as part of the All College General Education Core. General Chemistry I and Physics I may also be used to fulfill the All College General Education Core. The major will be effectively reduced to 48 credit hours.

REQUIRED COURSES:

PS 109 GENERAL CHEMISTRY I AND LAB (4)
PS 111 GENERAL CHEMISTRY II AND LAB (4)

BI 104 BIOLOGY OF ORGANISMS (4)

MA 105 CALCULUS I (3)
MA 106 CALCULUS II (3)

PS 119 PHYSICS I AND LAB (4)
PS 121 PHYSICS II AND LAB (4)

PS 137 INTRODUCTION TO DIGITAL ELECTRONICS (3)
PS 201 ORGANIC CHEMISTRY I AND LAB (4)
PS 203 ORGANIC CHEMISTRY II AND LAB (4)
PS 205 PHYSICAL CHEMISTRY I (3)
PS 209 ANALYTICAL CHEMISTRY AND LAB (4)
PS 211 INSTRUMENTAL ANALYSIS AND LAB (4)
PS 213 BIOCHEMISTRY (3)
PS 310 ADVANCED INSTRUMENTAL ANALYSIS (4)
PS 315 MICROCOMPUTER APPLICATIONS IN THE LABORATORY (3)

REQUIREMENTS FOR GENERAL SCIENCE OR CHEMISTRY CERTIFICATION

Note: These requirements are in effect for students expecting to be certified after October 1, 1994. All other students seeking certification are subject to requirements listed in earlier editions of the College Bulletin.

Certification may be earned for General Science (5-9, 9-12) or Chemistry (9-12). Students wishing to be certified to teach at the Middle or Secondary School levels must complete the following:

All courses for the General Science major with a General Science or Chemistry Concentration

The 18-credit secondary education sequence, described in the Education Department

listings
The appropriate academic methods course
PS 231 Methods of Science Education for the Middle School
ps 241 Methods of Physical Science Education
PS 251 Methods of Chemistry Education

GENERAL SCIENCE CONCENTRATION

This program is designed for, and only recommended to those students planning to teach general science at the 5-9 or 9-12 level. The student should choose, as electives, courses which meet the professional sequence recommended by the College for middle school or secondary school certification.

REQUIRED COURSES:

MIDDLE SCHOOL (GRADES 5 - 9) CERTIFICATION:

MA 103 COLLEGE ALGEBRA (3)
MA 104 PRECALCULUS (3)
PS 115 GENERAL PHYSICS I AND LAB (4)
PS 117 GENERAL PHYSICS II AND LAB (4)

SECONDARY SCHOOL (GRADES 9 - 12) CERTIFICATION:

MA 105 CALCULUS I (3)
MA 106 CALCULUS II (3)
PS 119 PHYSICS I AND LAB (4)
PS 121 PHYSICS II AND LAB (4)

BOTH MIDDLE AND SECONDARY SCHOOL (GRADES 5 - 12) CERTIFICATION:

PS 109 GENERAL CHEMISTRY I AND LAB (4)
PS 111 GENERAL CHEMISTRY II AND LAB (4)
PS 133 ASTRONOMY (3)
PS 104 PHYSICAL GEOLOGY (3)
PS 105 PHYSICAL GEOLOGY LAB (1)
PS 106 HISTORICAL GEOLOGY (3)
BI 104 BIOLOGY OF ORGANISMS (4)
One of the following:
BI 102 ENVIRONMENTAL BIOLOGY (4)
BI 106 INHERITANCE & DEVELOPMENT (4)

Elect a minimum of nine credits from the list below with a minimum of one course from each category listed:

Biology

BI 203 GENETICS I (4)
BI 205 CELL BIOLOGY (4)
BI 211 BOTANY OF HIGHER PLANTS (4)
BI 221 VERTEBRATE PHYSIOLOGY (4)
BI 223 MICROBIOLOGY (4)
BI 237 HUMAN ANATOMY & PHYSIOLOGY (4)
Chemistry
PS 201 ORGANIC CHEMISTRY I AND LAB (4)
PS 203 ORGANIC CHEMISTRY II AND LAB (4)
PS 205 PHYSICAL CHEMISTRY I (3)
PS 209 ANALYTICAL CHEMISTRY AND LAB (4)

If a student should use any of the listed courses for credit in the common core, the number of credit hours needed for the concentration would be reduced accordingly.

REQUIREMENTS FOR THE MINOR IN GENERAL SCIENCE 21-22 Credits

The General Science minor is designed to fulfill the new regulations requiring students seeking certification in Elementary Education to take a minor. The General Science Minor provides a broad background in science for those Elementary Education students wishing to minor in science. Students taking this minor will be prepared to teach science either in a self-contained classroom or as a science specialist in a departmentalized situation.

REQUIRED COURSES:

PS 101	PHYSICAL SCIENCE OR PS 113 INTRODUCTION TO PHYSICS	(4)
BI 102	ENVIRONMENTAL BIOLOGY OR BI 104 BIOLOGY OF ORGANISMS	(4)
PS 107	INTRODUCTION TO CHEMISTRY OR PS 109 GENERAL CHEMISTRY I	(4)
BI 101	SCIENCE FOR THE ELEMENTARY SCHOOL	(3)
PS 104	PHYSICAL GEOLOGY LECTURE AND PS 105 GEOLOGY LAB	(4)
PS 133	ASTRONOMY	(3)

REQUIREMENTS FOR CHEMISTRY CONCENTRATION: 46 Credits

Students wishing to obtain certification to teach chemistry should use electives to meet the professional sequence for secondary education recommended by the College.

REQUIRED COURSES:

MA 105	CALCULUS I	(3)*
MA 106	CALCULUS II	(3)
PS 119 & PS 121	PHYSICS I & II w/LAB	(8)
PS 109 & PS 111	GENERAL CHEMISTRY I & II w/LAB	(8)
PS 201 & PS 203	ORGANIC CHEMISTRY I & II w/LAB	(8)
PS 209	ANALYTICAL CHEMISTRY w/LAB	(4)
PS 211	INSTRUMENTAL ANALYSIS w/LAB	(4)
PS 205	PHYSICAL CHEMISTRY	(3)
PS 213	BIOCHEMISTRY	(3)
PS 304	SEMINAR IN APPLIED CHEMISTRY	(1)
PS 229	THEORETICAL AND EXPERIMENTAL RESEARCH	(1)

* A student who does not feel sufficiently prepared to undertake calculus should take College Algebra and/or Precalculus.

If a student should use any of the above courses for credit in the General Core, the number of credit hours needed for the concentration would be reduced accordingly and additional courses would be taken to attain the number of total credits required for a degree.

REQUIREMENTS FOR THE CHEMISTRY MINOR: 18 Credits

In addition to the concentrations within the major, the Department offers a minor in chemistry. A chemistry minor must initially take General Chemistry I and II. An additional 10 credit hours is then required from the following courses:

PS 201	Organic Chemistry I	(4)
PS 303	Organic Chemistry II	(4)
PS 205	Physical Chemistry	(3)
PS 209	Analytical Chemistry w/LAB	(4)
PS 211	Instrumental Analysis	(4)
PS 213	Biochemistry	(3)

COURSES

PS 101 PHYSICAL SCIENCE (4) Includes the basic concepts of physics such as elementary study of mechanics, heat, sound, light, magnetism, and electricity, along with introductory topics in Earth-Space science and Chemistry. Three lectures and one double-period laboratory session per week.

PS 104 PHYSICAL GEOLOGY (3) A systematic examination of the rocks and minerals which compose the earth's crust and the processes of weathering and erosion which sculpture the crust. Structural, tectonic, and other long-term activities are investigated. Three hours lecture per week. May be taken without laboratory.

PS 105 PHYSICAL GEOLOGY LABORATORY (1) Introduces students to the practical aspects of mineral and rock identification, the interpretation of topographic maps, and the use of maps to study landforms. The course includes several field trips that involve additional time commitments (on weekends or beyond normal ending-time for the laboratory). Prerequisite: PS 104 or concurrent registration.

PS 106 HISTORICAL GEOLOGY (3) surveys earth history (with an emphasis on North America), as deduced from the rocks exposed at the earth's surface. Major topics to be covered include the interpretation of sedimentary rock sequences in terms of surface environments at different times in the past, the history of life on earth as revealed in the fossil record, and a synthesis of earth history in terms of plate tectonics.

PS 107 INTRODUCTION TO CHEMISTRY (4) is a one-semester course consisting of a broad look at fundamental concepts of modern chemistry. Topics studied will include atomic and molecular structure, physical and chemical changes, acid-base chemistry, organic chemistry, and biochemistry. These concepts will be applied to the examination of our energy picture, environmental, chemical technological processes, and other related matters. Three hours lecture, three hours laboratory per week.

PS 109 GENERAL CHEMISTRY I (4) is a broad look at the fundamental concepts of modern chemistry including the mole concept, stoichiometry, heat, the periodic table, atomic structure, bonding, gas phase chemistry, and organic chemistry. Three hours lecture, three hours laboratory per week.

PS 111 GENERAL CHEMISTRY II (4) is a continuation of General Chemistry I. The topics covered include solid, liquid and solution chemistry; chemical equilibrium; chemical kinetics and chemical reactions; acid-base theory; electrochemistry; nuclear chemistry; and selected topics. Three hours lecture, three hours laboratory per week. Prerequisite: PS 109.

PS 113 INTRODUCTION TO PHYSICS (4) is a largely non-mathematical introduction to physics. The course is designed to introduce students to the methodology and content of physics through the study of fundamental physical laws and applications of those laws to problems in the life sciences, geosciences and space sciences. Topics from both classical and modern physics will be included. Laboratory work is an integral part of the course and emphasizes a "discovery" approach. Three hours lecture, one hour discussion, and two hours of laboratory work per week.

PS 115 GENERAL PHYSICS I (4) is an algebra-based introduction to physics. Classical mechanics forms the core of the course. Topics to be covered include kinematics and dynamics of motion in one, two, and three-dimensions, work, energy, conservation laws, rotational motion, static equilibrium, and gravitation. Additional topics may include oscillations and waves, sound, fluid mechanics, and/or elementary thermodynamics. Three hours lecture, one hour discussion, and two hours of laboratory per week.

PS 117 GENERAL PHYSICS II (4) is a continuation of General Physics I (algebra-based physics). The major topic for the second semester is classical electromagnetism. Topics to be covered include Coulomb's Law, electric potentials, electric and magnetic fields, electromagnetic induction, simple AC and DC circuits, and an introduction to optics. Additional topics may include thermodynamics and/or an introduction to special relativity. Three hours lecture, one hour discussion, and two hours of laboratory work per week. Prerequisite: PS 115.

PS 119 PHYSICS I (4) is a calculus-based introduction to physics. Classical mechanics forms the core of the course. Topics to be covered include kinematics and dynamics of motion in one, two, and three-dimensions, work, energy, conservation laws, rotational motion, static equilibrium, and gravitation. The use of elementary calculus to solve problems involving trajectories, work, and one-dimensional potentials will be stressed. Three hours lecture, one hour discussion, and two hours of laboratory work per week. Prerequisite: MA 105 or concurrent registration.

PS 121 PHYSICS II (4) is a continuation of Physics I (calculus-based physics). The major topic for the second semester is classical electromagnetism. Topics to be covered include Coulomb's Law, Gauss' Law, electric potentials, electric and magnetic fields, electromagnetic induction, simple AC and DC circuits, Maxwell'equations and an introduction to optics. Mathematically, this course introduces students to applications of the integral calculus in solving simple two and three-dimensional potential problems. Three hours lecture, one hour discussion, and two hours of laboratory work per week. Prerequisites: PS 119 and MA 106 or concurrent registration.

PS 133 ASTRONOMY (3) is a broad introductory survey of astronomy. Topics to be covered include history of astronomy, the night sky, the Earth and Moon, the solar system, spacecraft exploration of the planets, stars and stellar evolution, supernovae, pulsars, black holes, the Milky Way, galaxies, quasars, and cosmology. Students will be expected to become familiar with the major constellations. Several optional observing sessions will be held on clear evenings.

PS 137 INTRODUCTION TO DIGITAL ELECTRONICS (3) This course is intended for students majoring in one of the sciences (Computer Science, Biology, Psychology, or General Science) or others who might expect a knowledge of basic electronics, digital logic and practical instrumentation to be useful. Basic electricity, electrical measurements, and electronic components including integrated circuits will be introduced. The course will emphasize applications using numerous practical or computer related activities.

PS 201 ORGANIC CHEMISTRY I (4) is a survey of general organic chemistry. Preview of chemical principles; the structure, nomenclature, properties and uses of aliphatic and aromatic compounds. Discussion includes the isolation and identification of organic compounds, nucleophilic displacement and elimination reactions and organometallic

compounds. Three hours lecture, three hours laboratory per week. Prerequisite PS 111.

PS 203 ORGANIC CHEMISTRY II (4) is the continuation of Organic Chemistry I. The chemistry, properties and uses of alcohols, ethers, aldehydes, ketones, and organic acids are studied. Stereochemistry of organic structures are discussed. Carbohydrates, amino acids, proteins, and related biological processes are considered in emphasizing the life sciences and biochemical reactions. Three hours lecture, three hours laboratory per week. Prerequisite: PS 201.

PS 209 ANALYTICAL CHEMISTRY (4) consists of lectures, discussions, and laboratory work, covering the fundamentals of analysis. Study includes gravimetric analysis, volumetric analysis, and the statistical treatment of data. A main aspect of lecture will be the application of equilibrium to acid-base, precipitation, redox, and complex formation reactions. An important objective of the laboratory is the development of good laboratory technique. Three hours lecture, three hours laboratory per week. Prerequisite: PS 111.

PS 211 INSTRUMENTAL ANALYSIS (4) consists of lectures, discussions, and laboratory work covering the fundamentals of analysis. Emphasis will be on modern methods of instrumental analysis. Three hours lecture, three hours laboratory per week. Prerequisite: PS 209.

PS 213 BIOCHEMISTRY (3) The first portion of this course will study important biochemicals including water, amino acids, peptides, proteins, enzymes, carbohydrates, lipids, and nucleotides. The latter portion will examine the relationship of these compounds to bioenergetics, glycolysis, the tricarboxylic acid cycle, electron transport, oxidative phosphorylation, fatty acid oxidation and biosynthesis, carbohydrate biosynthesis, nitrogen and amino acid metabolism, protein synthesis, and photosynthesis. An effort will be made to correlate the various metabolic pathways with the cells and organelles of biological systems. Special topics may be covered if time should be available. 3 hour lecture. Corequisite: PS 201

PS 214 BIOCHEMISTRY LABORATORY (1) A three-hour laboratory session allowing students to develop laboratory technique in relationship to the study of biochemistry.

PS 229 THEORETICAL & EXPERIMENTAL RESEARCH (1-3)

PS 230 EARTH AND SPACE SCIENCES SEMINAR (1) offers students a chance to pursue topics in astronomy, geology, or related fields at a level beyond that of the introductory courses in those areas. One or more topics from a single discipline will serve as a focus for the course each semester. Topics will vary depending on the interests of the instructor and the students. Active student participation is required. May be repeated for credit with a different topic. Prerequisite: permission of the instructor.

PS 231 METHODS OF SCIENCE EDUCATION FOR THE MIDDLE SCHOOL/JR. HIGH SCHOOL (3) is designed to introduce the skills and techniques required for the successful teaching of General Science in the Middle School or Junior High School. The National Science Foundation programs and curricula based on these programs, with their emphasis on the inquiry approach, will be explored. Other topics will include evaluation techniques, laboratory safety, computer software, science societies, and journals. Prerequisites: Completion of a minimum of 20 hours of requirements for the General Science Major.

PS 241 METHODS OF PHYSICAL SCIENCE EDUCATION (3) is designed to introduce the skills and techniques required for the successful teaching of General Science and Chemistry in the secondary school. The National Science Foundation programs and curricula based on these programs, with their emphasis on the inquiry approach, will be explored. Other topics will include evaluation techniques, laboratory safety, computer software, science societies and journals. Prerequisites: Completion of a minimum of 20 hours of the requirements for the General Science Major.

PS 251 METHODS OF CHEMISTRY EDUCATION (3) This is designed to introduce the skills and techniques required for the successful teaching of Chemistry in the secondary school. The National Science Foundation programs and curricula based on these programs, with their emphasis on the inquiry approach, will be explored. Other topics will include evaluation techniques, laboratory safety, computer software, science societies and journals. Prerequisites: Completion of a minimum of 20 hours of the requirements for the General Science Major.

PS 301 MICROPROCESSORS AND MICROCOMPUTERS (3) Deals with the architectures, instruction sets, and applications of microprocessors and microcomputers. The emphasis will be on computer hardware at the chip level. Interfacing to the bus and to special I/O chips will be introduced. Students will design and implement simple interfaces for data acquisition and control. The software content of the course will include the use of machine language monitors and assemblers, and linking machine language routines to high level languages such as BASIC and LOGO. Most applications will be to the 6502 and 8088 microprocessors and families but other microprocessors and single chip microcomputers will be considered. Prerequisites: PS 137 and any programming course.

PS 304 SEMINAR IN APPLIED CHEMISTRY (1) A series of lectures by invited chemists active in non-academic laboratories (e.g. industrial, government, hospital). Sponsored jointly with the Cooperating Colleges of Greater Springfield (CCGS). The course will be offered only on a pass/fail basis. Prerequisite: PS 111.

PS 310 ADVANCED INSTRUMENTAL ANALYSIS (4) The course will examine both theoretical and experimental aspects of current instrumental analysis. Emphasis will be placed on capillary gas chromatography, courier-transform, infrared and nuclear magnetic resonance spectroscopy, mass spectroscopy, and inductively coupled plasma emission spectroscopy. Basic principles of quantum chemistry and their application to atomic and molecular spectroscopy will be studied. Other topics will include automated chemical analysis, robotics, and the use of computers for instrument control, data collection and library search techniques. Combined lecture/lab will be 6 hours per week. Prerequisites: PS 211 and PS 320.

PS 320 MICROCOMPUTER APPLICATIONS IN THE LABORATORY (4) Introduces students to the use of microcomputers for data acquisition and control in the laboratory. Students will utilize common digital parallel and serial interfaces for microcomputers. Analog signal conditioning requirements and techniques will be explored and students will be introduced to digital signal processing. Students will learn to use commercial I/O data acquisition hardware, as well as prototype systems constructed in the laboratory. They will learn to use commercial software and to write their own simple programs. Applications to the chemical laboratory will be stressed. Prerequisites: PS 117, PS 137, PS 211.

PS 399 INDEPENDENT STUDY (3-6)

POLITICAL SCIENCE

The Department of Political Science offers four concentrations: Law, Public Administration and American Politics, International Studies and Theory, and Interdisciplinary Law and Legal Studies. The internship program, a key element in the department's offerings, features 3 to 6 credit placements locally and in Boston and a 15-credit program in Washington, D.C. Each year, the International Relations Club participates in a model United Nations in New York City and often in other models as well. The department also sponsors a local chapter of the national honor society in Political Science, Phi Sigma Alpha.

Political scientists learn to think critically and analytically and to apply a broad understanding of the nature of politics to the important questions of our time. A major in Political Science alone or in combination with another major not only prepares you for careers in law or government, but also provides you with skills necessary in a wide range of other professional and managerial positions.

REQUIREMENTS BACHELOR OF ARTS IN POLITICAL SCIENCE: 36 CREDITS

The Political Science Major has four regular tracks and one interdisciplinary track. The program permits the student to study with or without an internship in his/her choice of Public Administration and American politics, International Studies and Theory, or Interdisciplinary Law and Legal Studies. Internships, though not mandatory, are usually available in all tracks.

1. Nine credits of required courses including:
   PL 101 American National Government (3)
   PL 206 Political Analysis (3)

One course selected from the following:
   PL 103 State and Local Government (3)
   PL 210 Comparative European Government (3)
   PL 205 Urban Politics (3)
   PL 308 Constitutional Law (3)

2. Twelve credits in one of four tracks in political science or 18 hours in the Interdisciplinary Law and Legal Studies track.

3. Fifteen credits of additional political science course work.

MAJOR FIELDS OF CONCENTRATION

Note: Special Topics and Internships may be offered in any of the following four tracks:

Track 1: International Studies and Theory
   PL 206 Political Analysis (3)
   PL 209 International Relations (3)
   PL 210 Comparative European Government (3)
   PL 301 Political Theory I (3)
   PL 302 Political Theory II (3)
   PL 305 American Foreign Policy (3)
   PL 314 Communist Systems (3)
   PL 315 Comparative Judicial Systems (3)
   PL 317 Comparative Ideological Systems (3)
   PL 321 Issues In U.S. Politics (3)
   PL 324 Third World Politics (3)

Track 2: Pre-Law
   PL 207 Administrative Law (3)
   PL 304 American Political Ism's (3)
   PL 308 Constitutional Law (3)
   PL 309 Civil Liberties I (3)
   PL 315 Comparative Judicial Systems (3)
   PL 316 Adjudication of Social Issues (3)
   PL 323 Special Topics in Law (3)

Track 3: Public Administration and American Politics
   PL 103 State & Local Government (3)
   PL 204 Introduction to Public Administration (3)
   PL 205 Urban Politics (3)

PL 207 Administrative Law (3)
PL 304 American Political Ism's (3)
PL 305 American Foreign Policy (3)
PL 306 The American Political Process (3)
PL 307 Executive & Legislative Politics (3)
PL 308 Constitution Law (3)
PL 309 Civil Liberties I (3)
PL 315 Comparative Judicial Systems (3)
PL 318 Public Management Skills (3)
PL 319 Bureaucratic Politics (3)
PL 320 Politics of Budget-Making (3)
PL 321 Issues in U.S. Politics (3)

Track 4: Interdisciplinary Law and Legal Studies

Phase I
PL 207 Administrative Law (3) (Required)
PL 308 Constitutional Law (3) (Required)
PL 309 Civil Liberties I (3) (Required)
PL 316 Adjudication of Social Systems (3) (Required)

Phase II
PH 103 Symbolic Logic (3)
PL 206 Political Analysis (3)
CJ 204 Principles Of Investigation (3)
CJ 305 Principles of Evidence and Proof (3)

Phase III
BI 223 Environmental Legislation (3)
MG 241 Business Law (3)
MG 301 Labor Relations (3)
CJ 203 Criminal Law (3)
CJ 316 Civil Liabilities for Criminal Justice Professionals (3)
MC 307 Broadcast Law (3)
PH 305 Philosophy of Law and Legal Systems (3)
PL 315 Comparative Judicial Systems (3)

ABOUT TRACK 4

The four courses in the first phase are required. The student may take either Symbolic Logic, Political Analysis or Evidence/Investigations in the second phase and one of the different Law specialty courses offered by other departments of the College for the third phase.

If a student selects PL 206 Political Analysis they will be permitted to take an additional two courses: either one of the two in the second phase (Symbolic Logic or Evidence) and a specialty Law course from the third phase; or two specialty courses from the third phase.

Students may decide to select all three courses from the second phase (Symbolic Logic, Research and Methodology, and Evidence) and omit the third phase.

The 18-credit concentration including the non-political-science courses will count toward the 36-credit major in Political Science.

POLITICAL SCIENCE MINOR: 18 CREDITS

Students in such fields as economics, business administration, history, psychology or criminal justice often find the option of a minor in political science particularly attractive. Students who wish to minor in political science are required to take 18 credits of courses within the Department. An internship may make up part of the 18 credits if the student qualifies for such a program and receives such an assignment.

URBAN STUDIES CONCENTRATION

The student who wishes to be a political science major (36 credits) with a minor in Urban Studies (18 credits) may take any track either with or without an internship. The student should choose his/her required additional 18 credits in other departments with the assistance of his/her advisor. These credits may be selected in such areas as: history, mathematics, geography and regional planning, education, economics, sociology, business administration and psychology.

COURSES

PL 101 AMERICAN NATIONAL GOVERNMENT (3) Fundamental course dealing with the constitution, congress, president, courts, and political party systems of the American national government.

PL 103 STATE AND LOCAL GOVERNMENT (3) Fundamental course dealing with the powers, organization, functions and intergovernmental relations of the state, country, municipality and other local governments.

PL 204 INTRODUCTION TO PUBLIC ADMINISTRATION (3) The relationship of the administrative branch of government to other branches in the making and implementation of public policy, theories of government organization for efficient administration, problems of budgeting, personnel, merit systems, types of agency organization, popular control over the bureaucracy.

PL 205 URBAN POLITICS (3) Exemplifies the areas of "urban problems" in the context of leading political science theories, and in turn examines these writings in light of contemporary developments in the cities.

PL 206 POLITICAL ANALYSIS (3) Quantitative and Qualitative approach to understanding how theory is constructed. Political thought and action and its relation to normative and empirical studies found in the following disciplines: Philosophy, Sociology, Economics, and Science. Emphasis on how political theory and analysis deals critically with social change through the mediation of structural functional and conflict models of change.

PL 207 ADMINISTRATIVE LAW (3) Law concerning the powers and procedures of administrative agencies and the part they plan in setting and rejecting governmental policy. Special attention is put on the courts' role in mediating agency actions and their constitutionality within the branches of the federal government.

PL 209 INTERNATIONAL RELATIONS (3) An introduction to the nation-state system and conceptions of national interest in modern world politics. The forms and distribution of power by which states seek to implement national interest. The making of foreign policy and methods of adjusting international conflict. Emphasis on current international problems.

PL 210 COMPARATIVE EUROPEAN GOVERNMENT (3) The institutional approach will be employed to the study of the governments of England, France, Italy, Germany, and the Soviet Union. The institutional approach considers the organizations of governments, their constitutional basis, their sources of legitimacy, and their methods of operation. This approach seeks to understand the workings of governments by an analysis of these components.

PL 211 COMPARATIVE FOREIGN POLICY (3) The nation-state and its power relationships with other states and international organizations, regional and global. A theoretical study of the cultural, ideological, economic, institutional, and personality influences on the foreign policy of particular countries. The country studied will change from semester to semester. Students may therefore enroll for the course more than once. Prerequisite: PL 101.

PL 301-302 POLITICAL THEORY, I, II (3 each) Selected issues in the history of political thought wit emphasis on their pertinence to ancient and recent political, economic, and social problems.

PL 304 AMERICAN POLITICAL ISM's (3) Analysis of the origin and function of theory and ideology in the American political and institutional experience with regard to such categories as: Conservatism, Liberalism, Socialism, Elitism, and Managerialism (political economy). Special emphasis will be placed on the contemporary impact of such ideological labels.

PL 305 AMERICAN FOREIGN POLICY (3) Constitutional, political, ideological, and administrative considerations which influence the formulation and execution of American foreign policy. Special emphasis on current issues.

PL 306 THE AMERICAN POLITICAL PROCESS (3) A study of how the political ideas, values, and goals of the America people are expressed through the machinery of American politics; parties, elections, interest groups and social movements.

PL 307 EXECUTIVE AND LEGISLATIVE POLITICS (3) The origins, development, and functions of the executive and legislative branches of American Government. The study of the impact of social structure and the economic system on these institutions. Analysis and discussion of their power relationships and their place in American politics.

PL 308 CONSTITUTIONAL LAW (3) The Federal system under the Constitution of the United States, judicial review in constitutional cases, state and local rights and responsibilities.

PL 309 CIVIL LIBERTIES (3) Selected cases dealing with constitutionally protected rights of speech, press, and assembly, as well as with court created rights.

PL 315 COMPARATIVE JUDICIAL SYSTEMS (3) A study of selected countries' judicial systems dealing with each system's origins,

development, and the kinds of cases which the system is called upon to adjudicate.

PL 316 ADJUDICATION OF SOCIAL ISSUES (3) A study of the extensive changes in the American social, economic, and political structure brought about within the framework of the judicial process.

PL 317 COMPARATIVE IDEOLOGICAL SYSTEMS (3) An examination of the major theoretical foundations of communism, fascism, democracy and socialism. A study of ideological doctrines and institutional patterns and their consequences and prospects for the future.

PL 318 PUBLIC MANAGEMENT SKILLS (3) Emphasizes those areas most important to administration, including in-depth work in public budgeting and finance skills; details of public personnel activities and problems (recruiting, hiring, training, promotions, etc.); various facets of public relations, ranging from inter-organization communication to dealing with media; leadership, decision-making and supervision. Draws from contemporary examples.

PL 319 BUREAUCRATIC POLITICS (3) Includes various theories of organization, but emphasizes the organization's place in the U.S. political system; that is, the partisan political and the interest group politics which shape the public programs at all levels of government.

PL 320 POLITICS OF BUDGET-MAKING (3) Deals with federal, state, and local budgets, how they are made, who influences the decisions, and the implications of those decisions.

PL 321 ISSUES IN U.S. POLITICS (3) Analysis of conflict and decision-making in specific policy areas. These will change from semester to semester and will include, among others, energy, employment, defense, economic policy, education, and race and ethnicity. Students may therefore enroll for the course more than once. Prerequisite: PL 101 or PL 103 or equivalent.

PL 323 SELECTED TOPICS IN POLITICAL SCIENCE (3) A study of basic political and intellectual forces shaping contemporary world politics. Information concerning past events, issues, movements, and personalities are subjected to reinterpretation in the light of recent scholarship. Prerequisite: PL 101.

PL 324 THIRD WORLD POLITICS (3) Comparative analysis designed for the student interested in general problems of politics and development in the third world; concepts are drawn from several analytical approaches and are applied to case studies of African, Asian, and South American countries. Prerequisite: six credits in social science or equivalent.

PL 397 POLITICAL SCIENCE INTERNSHIP (3 or 6) Provides experience in a local, regional or state governmental office. Daily journal and semester paper required.

PL 398 WASHINGTON INTERNSHIP (15) A semester in the nation's capitol serving in a public service office at a junior entrance level. One evening course included. Daily journal and semester paper required.

PL 399 INDEPENDENT STUDY

PSYCHOLOGY

The Psychology major combines a theoretical introduction to the major fields of psychology with a practical curriculum in order to prepare students for further graduate study or for a career in psychology-related fields. In addition, it is not unusual to find students with a strong psychology background employed in business and personnel areas. Many students pursue double majors with Criminal Justice, Economics/Business Management, and Computer Science.

The Department houses laboratories and equipment for experimental work in both animal and human learning. A practicum course is also regularly offered in conjunction with area human service agencies, schools, and businesses. The Center for Psychological Services, staffed by faculty from the Department, provides free, confidential counseling to members of the college community. There is also a peer counseling group for which selected students may earn academic credit.

REQUIREMENTS FOR PSYCHOLOGY MAJORS

The Psychology majors consists of a minimum of 36 credits. Students must take at least 15 credits within the Westfield State College Psychology Department. Required courses include:

PY 101 Introduction to Psychology (3): prerequisite to all other psychology courses

PY 105 Research Methods (3): prerequisite for all "natural science" psychology courses, expected for all other psychology courses. This course should be taken in the semester following Introduction to Psychology

2 courses from each of the groups below: 18 credits

Natural Science

PY 306 Learning (3)
PY 308 Statistics for Psychologists (3)
PY 309 Experimental Design (3)
PY 312 Physiological Psychology (3)
PY 313 Comparative Psychology (3)
PY 341 Cognitive Psychology (3)
PY 359 Sensation and Perception (3)

Social Science

PY 201 Theories of Personality (3)
PY 202 Child Psychology (3)
PY 203 Adolescent Psychology (3)
PY 303 Abnormal Psychology (3)
PY 304 Social Psychology (3)
PY 336 Psychology of the Family (3)

Applied

PY 200 Industrial and Organizational Psychology (3)
PY 206 Educational Psychology (3)
PY 317 Behavior Modification (3)
PY 318 Psychology of Interpersonal Relations and Communications (3)
PY 322 Theories of Counseling (3)
PY 323 Counseling Theory and Practice (3)

Additional electives in Psychology 12 credits - any Psychology courses

Total credits in Psychology Major 36

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY

A total of 18 credits in psychology department offerings will qualify a student for a minor in psychology.

COURSES

PY 101 INTRODUCTION TO PSYCHOLOGY (3) Overview of the basic theories and facts of human behavior and mental life. Topics include the scientific method, the physiological bases of behavior, sensation and perception, learning and memory, development, personality, social psychology, and abnormal behavior. Psychological knowledge is related to daily problems and everyday life. This course is a prerequisite to all other psychology courses.

PY 105 RESEARCH METHODS IN PSYCHOLOGY (3) (This course should be taken the semester

after completion of Introduction to Psychology and is a requirement for all psychology majors). Introduction to the scientific method as used in psychology. Students are given laboratory experience at carrying out simple research. Lectures cover the concepts of a hypothesis, an experiment, control procedures, law, and theory. The course focuses on research methods, experimental techniques, and a mention of the basic statistical concepts as they are used in research. Prerequisite: PY 101

PY 200 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY (3) Concerns the application of psychological principles to the problem of people operating within business or industry. Includes such topics as the nature of organizations, effective leadership styles, communication skills, group dynamics, and the role of leisure time. Prerequisite: PY 101

PY 201 THEORIES OF PERSONALITY (3) The major theories of personality, including those of Freud, Jung, Sullivan, Allport, and Rogers, and the evidence used to support them. Comparisons and contrasts of these theories are made and implications drawn will be discussed and applied to counseling, psychotherapy, and education. Prerequisite: PY 101

PY 202 CHILD PSYCHOLOGY (3) The systematic study of the organismic and psychological changes in the child from birth up to adolescence, and of the importance of maturation, growth, and social learning in effecting these changes. Attention is focused on factors in personality, emotional, and cognitive development. Several lectures cover psychological theories of child development as based on available research data. Prerequisite: PY 101

PY 203 ADOLESCENT PSYCHOLOGY (3) Course concerns are the adolescent period of life. Lectures cover the various aspects of development: physical, intellectual, social, emotional, and sexual. Several lectures involve the interpersonal aspects of the life of adolescents, including family, peer, and school relationships, vocational choice, and the self-concept. Also covered are various psychological theories of adolescent development as based on available research data. Prerequisite: PY 101

PY 204 SELF CONTROL AND STRESS MANAGEMENT (3) The concept of self-control will be examined from various psychological perspectives (e.g. behavioral, psychoanalytic, and humanistic), and a technology of self-control procedures will be introduced which have applications to a wide range of clinical problems. The determinants of stress and its manifestations - physiological, behavioral, and cognitive - will also be examined together with procedures for stress management including relaxation techniques, meditation, biofeedback, and cognitive-behavioral strategies. Prerequisite: PY 101

PY 205 CAREER PLANNING AND DEVELOPMENT (3) Designed to familiarize students with the major theories of career choice, to enable them to learn a self-assessment process in relation to career opportunities, and to develop flexible strategies for achieving and managing a satisfactory career. The course will also include a discussion of various problems associated with different career opportunities such as technological and social change, value conflicts, dual-career couples and adult developmental needs. Prerequisite: PY 101

PY 206 EDUCATIONAL PSYCHOLOGY (3) The study of the psychological concepts in educational practices, including the nature and sources of individual differences and readiness, learning, theories, motivations, emotions, and the evaluation of learning techniques. Prerequisite: PY 101

PY 303 ABNORMAL PSYCHOLOGY (3) The etiology, development, and therapy of mental disorders. Stress will be on the psychodynamics of pathological behavior. Consideration will be given to various forms of unusual behavior ranging from anxiety states to psychosis. Analyses of pathological behavior will be based on current theories of maturation, emotion, and personality. Prerequisite: PY 101

PY 304 SOCIAL PSYCHOLOGY (3) The individual's behavior and cognition in the social setting. Social psychology includes the processes of interaction, enculturation, prejudice, attitudes, and a psychological analysis of social institutions such as church, family and school. Prerequisite: PY 101

PY 306 LEARNING (3) An introduction to the terminology, concepts, and methods in the study of learning. An examination of principles in terms of early and contemporary inquiries and experiments. The focus is on classical and instrumental conditioning, generalization, and discrimination processes. For students who major or concentrate in psychology. Prerequisite: PY 101 and PY 105

PY 308 STATISTICS FOR PSYCHOLOGISTS (3) The application of statistical methods to current research problems in psychology. The selection of procedures appropriate to problems, performance of the procedures, interpretation of outcomes, data tabulation and reduction, measures of central tendency and variability, correlation and prediction, tests of significance, t-test, chi square and analyses of variance. Prerequisite: PY 101 and PY 105

PY 312 PHYSIOLOGICAL PSYCHOLOGY (3) A presentation of the physiological mechanisms of behavior with application to both normal

and abnormal human behavior. Includes elementary neuroanatomy and discussion of ethical issues of the discipline. Prerequisite: PY 101 and PY 105

PY 313 COMPARATIVE PSYCHOLOGY (3) A study of the similarities and differences in the behavior of animals, ranging from the unicellular to non-human primates. The course will stress comparative learning, but aspects of such topics as instinctive behavior, psychophysiology, and social behavior will also be discussed. Psychology majors only. Prerequisite: PY 101 and PY 105

PY 314 HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Aim is to familiarize the student with the antecedents of modern psychology, the rise of experimental psychology as a science, the British, German, and American schools of psychology, and contemporary psychological systems. Several lectures cover the philosophical foundations of experimental psychology, and the philosophy of theory construction. Prerequisite: PY 101, PY 201, and PY 306 strongly suggested.

PY 316 PSYCHOLOGY OF HUMAN SEXUALITY (3) A study of the differences between the psychological development of men and women. Stresses the phenomenon of role typing at an early age of development. Reevaluation of Freud's theories on the psychological development of women. Course reviews new research findings on psychosexual development and related child-rearing practices. Not open to freshmen. Prerequisite: PY 101

PY 317 BEHAVIOR MODIFICATION (3) An overview of the basic techniques derived from operant and respondent conditioning used to bring about behavioral change. Topics include the several categories of reinforcement, schedules, shaping, generalization, stimulus discrimination, and punishment as well as methods of data collection. Prerequisite: PY 101

PY 318 PSYCHOLOGY OF INTERPERSONAL RELATIONS AND COMMUNICATIONS (3) Practical experience in interpersonal communication with use of videotape and social psychology laboratory. Review of research on human communication from the viewpoint of transactional analysis, kinetics, the small group approaches of Rogers, Ellis and Perls. Limited in size and to junior and senior psychology majors; others admitted with special permission of instructor. Prerequisite: PY 101

PY 322 THEORIES OF COUNSELING (3) A presentation of the philosophies, methods, techniques, and research associated with five or six major contemporary counseling theories such as psychoanalytic, client-centered, rational emotive, and gestalt. Prerequisite: PY 101 and PY 201.

PY 323 COUNSELING THEORY AND PRACTICE (3) Designed to help counselors to develop an understanding of the issues involved in helping relationships dealing with persons having educational, vocational, interpersonal and intrapersonal problems. Techniques and abilities to apply basic counseling skills will be stressed. The aim of the course is to develop an advanced understanding of major counseling theories. Elective for juniors and seniors. Prerequisites: PY 101, PY 201, PY 322

PY 332 PEER EDUCATION AND COUNSELING (1.5 credits per semester for 1 or 2 semesters) Aims to familiarize students with information basic to counseling issues so that these students can function as resource individuals and counselors to their peers. Training is given in areas such as physiology of sex, problem pregnancies, depression and suicide, eating disorders, racism, sexism, oppression issues, community resources and counseling techniques. Prerequisite: Membership in SECS.

PY 333 PRACTICUM IN PSYCHOLOGY (6) Students seek placement in agencies which provide various psychological services to the community. The primary goal of the placement is to provide an opportunity for the student to become involved in a meaningful manner with the services provided by the agency. It is hoped that the student can make a contribution to the service. The student is responsible, under the joint direction of an agency representative and a Department of Psychology supervisor, for the formulation of a detailed outline of activities, time commitment, and responsibilities. The student will also prepare a term paper and a final evaluation related to the activities in which he/she is involved.

The agency is expected to provide general supervision and make a final evaluation of the student's performance. The Department representative will make periodic evaluations of the student's performance and will cooperate fully with the agency supervisor. Interested students should contact the Chair of the department. Prerequisites: PY 101, PY 201, PY 322, PY 323.

PY 335 SENIOR SEMINAR (3) A limited enrollment course designed according to current student and faculty interests and focuses on advanced study of current research and theory in a particular area of psychology. Prerequisite: PY 101 and senior status.

PY 336 PSYCHOLOGY OF THE FAMILY (3) A presentation of theories of how family interaction and patterns of response influence personality and behavior. An exploration of the characteristics of "healthy" and "unhealthy" families and the types of individuals they produce. A review of family therapy techniques as a means of treating the "identified patient." Limited to juniors and seniors. Prerequisite: PY 101

PY 341 COGNITIVE PSYCHOLOGY (3) The psychology of sensation, perception, psycholinguistics, cognition and information processing. Topics include memory, attention, pattern recognition, thinking, problem solving, language, and artificial intelligence. Lectures stress in-depth reviews of the experimental evidence which bears on theories of cognition and language. Prerequisite: PY 101 and PY 105.

PY 352 WOMEN AND MENTAL HEALTH (3) This course will examine issues related to women's mental health. Topics will include theories of female personality development, socialization, life cycle events, sexuality, psychopathology more frequently associated with women (e.g. depression, eating disorders, phobias), specific treatment needs of women, the impact of violence against women, and international issues concerning women.

PY 353-356 SPECIAL TOPICS IN PSYCHOLOGY (3) each offering; students may receive no more than 6 credits for this course number. Offered on an irregular basis. This offering is an in-depth study of a limited and/or specialized area within one field of psychology. The exact title will vary according to the specialization of the instructor and the interest of the students. Prerequisites: PY 101 and at least 9 additional credits in psychology for majors; PY 101 and permission of instructor for non-majors.

PY 357 ADULT DEVELOPMENT AND AGING (3) A study of human development through the early, middle, and later adult years. The course will focus on the maturational and environmental determinants of changes in sensation and perception, learning and memory, intelligence, cognition, and personality. Prerequisite: PY 101

PY 359 SENSATION AND PERCEPTION (3) Introduction to the laboratory study of perceptual phenomena. Students use different instrumentation such as the tachistoscope and dichotic listening equipment and apply various methodologies in a series of experiments during the first part of the course, comparing several theoretical approaches. The second part of the course is given to laboratory demonstrations and the development of an individual project. Prerequisite: PY 101, PY 105, and permission of instructor

PY 360 LEARNING LABORATORY (3) Provides students with laboratory experience in animal learning. Initially all students will train animals using basic procedures in behavioral control including shaping, response acquisition and simple discrimination. Student will then pursue individual projects examining response chaining, performance on simple or complex schedules of reinforcement, choice behavior, and other areas of learning. Prerequisites: PY 101, PY 105, and PY 306 and permission of instructor

PY 361 PSYCHOLOGY OF RACISM (3) Provides students with an understanding of the psychological causes and emotional reality of racism as it affects everyday life. Through the use of lectures, readings, simulation exercises, group research projects, and extensive class discussion, the student explores the psychological impact of racism on both the oppressor and the oppressed. Prerequisite: PY 101

PY 362 ALCOHOLISM: CAUSES AND TREATMENT (3) The objectives of this course are to explain and interpret the dynamics, research and most effective treatment modalities for alcoholism. Included are the physiological causes of alcoholism, common psychological denominators, defenses, the progression and the recovery-relapse of the alcoholic. The alcoholic family as a unit to be treated is considered also. Prerequisites: PY 101 or permission of instructor

PY 381 EXPERIMENTAL SOCIAL PSYCHOLOGY (3) Provides skills in field and laboratory research methodology. A few topics in social psychology, such as interpersonal attraction, attitude change, social cognition and impression management are discussed in detail. Following an in-depth analysis of a specific topic, students conduct either field or laboratory experiments. Students are closely supervised and are responsible for conducting and scheduling experiments; collecting, coding and analyzing data; and submitting a final written report in APA format for each experiment. Prerequisites: PY 101, PY 105, PY 304, or the permission of the instructor

PY 399 INDEPENDENT STUDY - PSYCHOLOGY (1-6) Credit for independent study is granted for special academic work done under the supervision of a faculty member of the Psychology Department. This work may involve library research and subsequent preparation of a scholarly paper; design and completion of an experimental project or field study; advanced study and application of concepts in a particular area of psychology beyond that covered in typical course work. At the end of the project, a final written report should be submitted to the faculty supervisor, with a copy to the departmental advisor and a copy to the chairman of the department. Prerequisites: PY 101; approval by student's advisor, department chairman and Academic Dean.

SOCIOLOGY AND SOCIAL SCIENCE

Students majoring in Social Science select one of the following concentrations: General Social Science or Social Work. The Department of Sociology and Social Science also offers minors in Social Work and Sociology.

The General Social Science Concentration offers students a broad interdisciplinary program in the social sciences, including Economics, Geography, History, Political Science, Psychology, and Sociology. Completion of this concentration gives students a strong background in the social sciences and the flexibility to adapt to a variety of employment possibilities. The Senior Thesis/Internship, which culminates work in this concentration, gives majors the opportunity to gain hands-on experience in a variety of governmental, business, and service settings.

The Social Work Concentration prepares students for entry-level positions in the social services (professional development in social work generally requires the completion of a graduate program in social work). In addition to taking the required course work in Social Work and Sociology, majors must complete a six credit practicum in a social work setting. Students are also encouraged to accumulate elective credits in other related fields, such as Psychology, Education, and Criminal Justice.

REQUIREMENTS FOR SOCIAL SCIENCE MAJORS

FOUNDATION COURSES

For majors concentrating in Social Science, one foundation course (i.e., a level-100 course, usually) should be taken in each of the following fields: Sociology, Psychology, Geography, Economics, and Political Science. Majors concentrating in Social Work must take Principles of Sociology and a foundation course in one other social science discipline.

CONCENTRATIONS

For the General Social Science Concentration, nine credits of post-introductory work (level-200 course or higher) should be selected in one of the following fields and six in each of two others: History, Sociology, Psychology, Geography, Economics, and Political Science. Six additional credits are required in one of the three fields selected above. Finally, a three credit Senior Thesis or Social Science Internship is required for a total of forty-five credits in the concentration.

Students who select the Social Work Concentration must take Introduction to Social Work, Introduction to Social Welfare, Interventive Methods in Social Work, Human Services: Planning and Organization, and a six credit Social Work Practicum. In addition, twelve credits are required in post-introductory Sociology courses, for a total of thirty-six credits in the concentration.

[Note: Social Work courses must be taken in an appropriate sequence: Introduction to Social Work and Introduction to Social Welfare are both required before taking either Interventive Methods or Human Services Planning and Organization. All four of these courses must be completed before the Social Work Practicum.]

MINOR REQUIREMENTS IN SOCIOLOGY AND SOCIAL WORK

The department offers two minors and provides a variety of service courses to augment other academic disciplines. The department also provides for practical experience through placement in community agencies. The requirements for a minor are as follows:

1. Minor in Sociology: 18 hours total
   - SO 101 Principles of Sociology (3)
   - Two Sociology courses (either 200 or 300 level) (6)
   - Three Sociology courses (at 300 level) (9)

2. Minor in Social Work: 18 hours total
   - SO 104 Introduction to Social Work (3)
   - SO 105 Introduction to Social Welfare (3)
   - SO 322 Interventive Methods in Social Work (3)
   - SO 324 Human Services: Planning and Organization (3)
   - SO 351 Social Work Practicum (6)

COURSES

SO 101 PRINCIPLES OF SOCIOLOGY (3) An overall study of the concepts and principles of group behavior analysis of the components of culture and the structure of society; social organization and differentiation.

SO 104 INTRODUCTION TO SOCIAL WORK (3) Preprofessional course designed to provide view of historical background, basic principles and concepts, current trends, and careers in Social Work.

SO 105 INTRODUCTION TO SOCIAL WELFARE (3) A study of Social Welfare as an institution; the development of the Social Welfare profession through the ages, comparative institutional analysis, normative and organizational structure.

SO 200 CULTURAL ANTHROPOLOGY (3) An overview of cultural anthropology as a discipline and to the concepts and techniques essential for understanding different cultures, both contemporary and past. Includes analysis of universal aspects of human experience, including the family, economic, political, religious, artistic, and linguistic systems, examined in cross-cultural perspective. A brief examination of hunters and gatherers, tribal and peasant peoples, among others and an introduction to the dynamics of cultural contact, cultural evolution, and change.

SO 201 THE FAMILY (3) The family as a social institution, affected by and affecting other institutions. Some material of the family in non-industrial societies will be included, but the main focus will be on persisting patterns and on changes in pre-marital, marital, and family relationships in the United States.

SO 202 RACE AND ETHNIC RELATIONS (3) A study of the phenomena which arise when different biological and cultural groups interact, and of theories and methods calculated to reduce antipathy and discrimination against minority groups, with an emphasis on American relations.

SO 204 INTRODUCTION TO RESEARCH METHODS IN SOCIOLOGY (3) The development of social research; the nature of sociological inquiry; basic methods and techniques; examination of representative sociological studies from the standpoint of methodology. Prerequisite: SO 101.

SO 300 SENIOR THESIS/INTERNSHIP (3-6) The course provides an opportunity for independent study which may take a theoretical direction (the non-agency research or the thesis option) or may involve observer participation in relevant community agencies and organizations.

SO 302 SOCIAL WELFARE AND SOCIAL CHANGE (3) The development of welfare and planning in association with the industrialization process. Agencies and occupations dealing especially with the elderly and youthful poor. Modern policies and proposals for change in selected problem areas. Prerequisite: SO 101.

SO 303 SOCIOLOGY OF LEISURE AND RECREATION (3) The study of the social institutional structure and functional systems of society related to leisure behavior. The social significance of leisure and the human values in leisure-time pursuits. Examination of practices and uses of leisure in the United States. Prerequisite: SO 101.

SO 304 SOCIAL CHANGE (3) Major theories of social change with respect to the origin of innovations and the reasons for their acceptance or rejection. An analysis of such sources of change as conflict, technology, and social planning in modern and developing societies. Prerequisites: SO 101.

SO 305 URBAN SOCIOLOGY (3) Growth, structure and functions of the city. The urban place as an ecological, stratified, attitudinal and decision-making unit. Urban problems and social relations. Prerequisite: SO 101.

SO 307 SOCIAL PROBLEMS (3) A study of contemporary American society in light of selected problem areas. An analysis of contributing factors, conflicting views and values, current situation of prospects for resolution involving application of sociological concepts, theories, and methods. Prerequisite SO 101.

SO 308 SOCIAL STRATIFICATION (3) A systematic treatment of the ranking systems in various social structures in America. Theories of social stratification and mobility, analysis of social class studies in the United States, the interplay of power, status, and control. Prerequisite: SO 101.

SO 309 SOCIOLOGY OF RELIGION (3) The scientific study of religion dating from mid-19th century animists and naturalists. Religion as a basic social institution with both integrative and diverse tendencies. Organizational patterns; interrelationships with other institutions. Theoretical developments within the field. Changing emphases in the function of religion as a major source of meaning and values in human societies. Prerequisite: SO 101.

SO 310 JUVENILE DELINQUENCY AND CRIMINOLOGY (3) Meaning, identification, and causes of delinquent and criminal behavior. The role of social institutions in corrections, control, and prevention of youthful and adult offenses. Prerequisite: SO 101.

SO 311 COMPLEX ORGANIZATIONS (3) Examination of major theories and studies of complex organizations. Emphasis is on recent findings regarding the influence of organizations on the behavior of members, bureaucratic "pathology", succession and displacement of goals, organizational types, characteristics, and problems of bureaucracies in a variety of settings: occupational, military, medical, religious, correctional, political; organization change in the light of contemporary theory and research noting the functioning of complex organizations in preindustrial and industrial societies. Prerequisite: SO 101.

SO 312 POPULATION STUDIES IN SOCIOLOGY (3) Introduction to population studies, provided within a sociological framework, and an analysis of historical, contemporary, and anticipated population conditions and trends, as these are related to social situations and the organization of society. Prerequisite: SO 101.

SO 314 COLLECTIVE BEHAVIOR (3) Study of such phenomena as crowds and mobs, panics and riots, fads and fashions, rumor and propaganda, the formation of publics, and public opinions. Examines the transition from unorganized to organized group behavior, from behavior based largely on emotional contagion to behavior on a shared symbolic framework. Prerequisite: SO 101.

SO 315 CHANGING SEX ROLES IN AMERICA (3) A study of existing sex roles in contemporary American society; examination of the determinants of such sex roles; comparison with existing sex roles in other societies; investigation of the relationship between biological priorities and sex role expectations; analysis of how sexual ascription at birth influences life experiences and chances of men and women; analysis of the relationship between sex role and social stratification; and analysis of the causes and consequences of change in culturally patterned sex roles. Prerequisite: SO 101.

SO 316 SMALL GROUPS (3) A systematic study of the influential theoretical and empirical writings and studies, classical and current, dealing with the structure and functioning of small groups; the influence of small groups research on theoretical perspectives in macro-sociology. Prerequisite: SO 101.

SO 318 SOCIOLOGY OF MEDICAL CARE (3) Examination of existing theory and research on medical care of a social institution. Study of the relation of social factors to illness, both physical and mental, and its distribution. Attitudes and beliefs regarding illness and the response to illness in various societies. Sociological analysis of hospitals as social organizations, of the medical profession, and of medical education. Comparison of medicine as it is practiced in the United States and in other countries. Prerequisite: SO 101.

SO 320 SOCIOLOGY OF EDUCATION (3) American schools as social organizations, as community associations, and as socialization agents. The functions of the school, and the relation of the institution of education to culture and social structure. Problems of change. Prerequisite SO 101.

SO 321 SOCIAL GERONTOLOGY (3) Aging as a biological, psychological, and sociological process with numerous economic and political implications. Emphasis will be placed on the role of both the family and the community. The crises of retirement, illness, and dying will also be treated. Prerequisite: SO 101.

SO 322 INTERVENTIVE METHODS IN SOCIAL WORK (3) A study of the relationship of social change and social problems; the role of the individual, group, community in social change and in offering social services to individuals and groups; and the professional skills and techniques necessary to the offering of these social services. Prerequisite: SO 104 and SO 105.

SO 323 INDUSTRIAL SOCIOLOGY (3) A macro and micro-sociological examination of structure and functioning of industrial societies and their institutional and organizational components; major theoretical approaches assessing industrial systems. Production and distribution values, institutions; organizations, and roles of industrial societies along with norms affecting industrial social experience will be emphasized. Prerequisite: SO 101.

SO 324 HUMAN SERVICES: PLANNING AND ORGANIZATION (3) An analytical examination of the essential components and planning of human service: targets and agents. Assessment of innovations and their economic, social, and psychological costs and benefits. Prerequisites: SO 104 and SO 105.

SO 330 SOCIOLOGY OF LAW (3) The sociological study of law; analysis of the legal system; relationship between the legal order and other institutional realms of society; the effectiveness of law as a mechanism of social control, and the place of law in broader patterns of social change. Prerequisite: SO 101.

SO 334 SPECIAL TOPICS IN SOCIOLOGY (3) An in-depth treatment of a limited and/or specialized area within sociology. Prerequisites: permission of instructor.

SO 351 SOCIAL WORK PRACTICUM (6) The course involves participant observation in social welfare agencies. Prerequisite: SO 322.

SO 399 INDEPENDENT STUDY (1-6)

WOMEN'S STUDIES MINOR

The Women's Studies Minor is an interdisciplinary program designed to provide students with the theoretical bases for understanding the role of women, both historically and currently, in shaping society's values, beliefs, laws, culture, arts, politics, and other institutions. It follows an integrative model which provides a coherent structure for using existing courses in the college curriculum.

Six courses constitute the minor:

WS 101 Introduction to Women's Studies (required) (3)
WS 301 Seminar in Women's Studies (required) (3)

Four other courses from among electives such as:

CJ 312 Women and the Law (3)
EN 326 Literature By and About Women (3)
MU 104 Women's Role in Music: A History (3)
PH 333 Seminar in Interdisciplinary Studies: "Women as Philosophers and Theorists" (3)
PL 323 Selected Topics in Political Science: "Women and Politics" (3)
PY 352 Women and Mental Health (3)
WS 201 Selected Topics in Women's Studies (3)

Other courses may be designated as Women's Studies electives when appropriate. Students interested in the minor can obtain further information from and apply for admission to the Chair of Liberal Studies. Advising is provided by faculty involved with the minor.

WS 101 INTRODUCTION TO WOMEN'S STUDIES (3) Introduces and develops the idea of Women's Studies as an approach to intellectual inquiry. Addresses a variety of Women's Studies issues in an interdisciplinary format, generally focusing on women's lives and experiences as illuminated by the social sciences and humanities.

WS 201 WOMEN IN MODERN ORGANIZATIONS: (3) Uses an interdisciplinary approach to enhance the understanding of social, ethical, and occupational problems which women face in their work roles within modern organizations. Focuses on strategies for problem-solving within a social and ethical framework with the goal of professional achievement and personal satisfaction within the particular organization. Prerequisites: WS 101 or equivalent.

WS 301 SEMINAR IN WOMEN'S STUDIES: (3) Designed to integrate conceptually and methodologically the major issues addressed by Women's Studies. Each student will complete and present a major research project which demonstrates an understanding of the interdisciplinary nature of women's issues. Prerequisites: WS 101, advanced work in Women's Studies or consent of the instructor.

WESTFIELD STATE COLLEGE BOARD OF TRUSTEES

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ADMINISTRATION

(The date in parentheses following the name indicates the beginning of service at Westfield State College)

RONALD L. APPLBAUM (1990) President B.A., M.A., California State University; Ph.D., Pennsylvania State University

WILLIAM H. LOPES (1988) Senior Vice President, Academic Affairs B.A., Providence College; M.A., Ph.D., University of Connecticut

PETER D. MAZZA (1971) Vice President, Student Affairs B.A., American International College; M.Ed., Springfield College; J.D., Western New England College, School of Law

WAYNE B. HAMILTON (1989) Dean, Graduate Studies and Continuing Education B.S., Wake Forest University; M.A., Duke University; Ph.D., McGill University

ROBERT A. MARTIN (1980) Dean, Undergraduate Studies B.A., Wesleyan University; M.A., Ph.D., University of Rochester

JAMES A. STAKENAS (1987) Executive Assistant to the President B.M.E., M.M., Central Michigan University; Ph.D., University of Nebraska

ADRENE ADAMS (1970) Staff Associate, Campus Center B.A., University of Massachusetts; M.Ed., Westfield State College

KAMAL H. ALI (1981) Director, Minority Affairs M.Ed., Ed.D., University of Massachusetts

SUSAN J. BASQUE (1988) Staff Associate, Judicial Affairs Coordinator B.A., North Adams State College; M.Ed., Central Connecticut State Unversity

F. PAUL BOGAN (1963) Director, Athletics B.S., University of Massachusetts; M.Ed., Pennsylvania State University

KATHERYN L. BRADFORD (1981) Assistant Director, Residential Life (Acting) B.A., M.S., State University of New York at Albany

DEBORAH J. BRODIE (1985) Staff Assistant, Bursar B.S., Westfield State College

CATHERINE BROWNLIE (1986) Staff Assistant, Financial Aid B.A., Our Lady of the Elms College

DIANA A. CALLAHAN (1985) Staff Assistant, Nurse

CLAUDIA CARAHER (1987) Staff Assistant, Publications Coordinator B.S., Northeastern University

JO ANN CHURCHILL (1985) Staff Assistant, Coordinator of Conference Services B.A., University of Massachusetts

MARGARET CIVELLO (1987) Staff Assistant, Executive Secretary, President's Office Associate, Northampton Junior College

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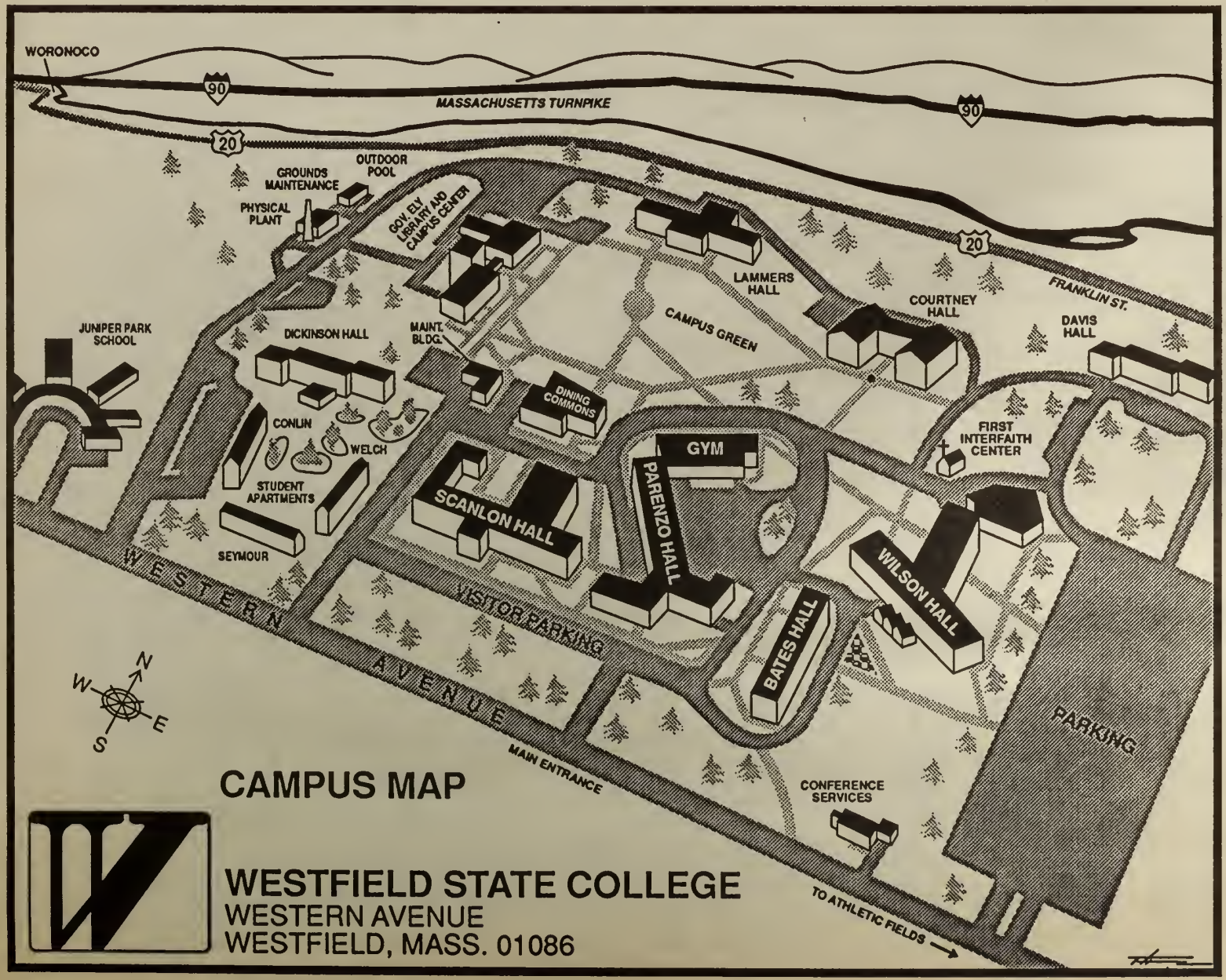

CAMPUS MAP

WESTFIELD STATE COLLEGE
WESTERN AVENUE
WESTFIELD, MASS. 01086

Key to Abbreviations of Classroom Listings

P	- Parenzo Hall (First building on campus from main entrance)*
B	- Bates Hall (Two story older building near Commuter Parking Lot)
W	- Wilson Hall (Four story modern building near Commuter Parking Lot)*
E	- Ely (Student Union Building, drive through entrance near Juniper Park School**
SUT	- Student Union Theatre (Located in Ely)
FSC	- Framingham State College
FPA	- Framingham Police Academy
J. PARK	- Juniper Park School (Elementary School past main campus)

*Handicap accessible
**Location of Library and Bookstore